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VOLUNTARY CLEANUP PROGRAM APPLICATION
4060 COUNTY LINE ROAD
ERIE, COLORADO 80516

Prepared for:

DIVERGE HOMES
603 South Public Road Unit 765
Lafayette, Colorado 80026

Attention: Mr. Nick Jacobs

Project No. FC10041.000-216-R1

September 27, 2021

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EXECUTIVE SUMMARY

This Voluntary Cleanup Plan (VCP) Application summarizes previous Environmental Site Assessments performed by CTL | Thompson for 4060 County Line Road (the Site) in Erie, Weld County, Colorado. This VCP Application addresses the applicable components of the VCP process in the November 2019 VCP Roadmap.

The proposed use of the Site is a redevelopment with twenty-three residential units, totaling approximately 2.79 acres. Each until will range from approximately 3,000 square feet to 3,300 square feet, including basements. According to the Weld County online GIS application, the Site consists of a portion of Parcel Nos. 146718300003 and 146718300013.

The primary contaminant of the concern at the Site includes petroleum products in the subsurface as the result of historic pre-cast concrete manufacturing on the Site. Oily contamination was discovered in the soils to a depth of less than 10 feet below grade. Petroleum hydrocarbons were at concentrations less than the RSLs. Groundwater beneath the former building contained low levels of toluene at concentrations well below Colorado groundwater standards. Future use of the Site does not include the use of groundwater.

Future residential development includes the installation of radon mitigation systems which will prevent build-up of vapors within building interiors.

1.0 GENERAL INFORMATION

1.1 Introduction

This report was prepared by CTL | Thompson, Inc. (CTL) for Diverge Homes, and presents our Voluntary Cleanup Program (VCP) Application for the 2.79-acre Site in Erie, Colorado (the Site). We are not applying for a No Action Determination (NAD) at this time; an NAD Request will be submitted after the conclusion of earthwork at the Site, when vertical construction is underway.

The Site is generally located at 4060 County Line Road in Erie, Weld County, Colorado. We have conducted environmental investigations on the Site between 2012 and 2021. We are including the following documents as part of this Voluntary Cleanup Plan, which can be found in **Appendix A**:

- CTL | Thompson, Inc., 4060 County Line Road Limited Phase II ESA 4060 County Line Road, dated August 9, 2021, CTL Project No. FC10041.000-205-L1; note that the letter includes the following figures:

  Figure 1 – Topographic Map
  Figure 2– Summary Logs of Exploratory Borings

- CTL | Thompson, Inc., Phase I Environmental Site Assessment, 4060 County Line Road, dated August 24, 2021, CTL Project No. FC10041.0000-205; note that the letter includes the following figures:

  Figure 1 – Topographic Map
  Figure 2 – Site Map

- CTL | Thompson, Inc., Supplemental Phase II Environmental Site Assessment, 4060 County Line Road, Erie, Colorado, dated September 17, 2013, CTL Project No. FC05859.001-205-L1; note that the letter includes the following figures:

  Figure 1 – Warehouse Sample Locations
  Appendix A – Boring Logs
  Appendix B – Laboratory Analytical Results

- CTL | Thompson, Inc., Phase II Environmental Site Assessment, 4060 County Line Road, Erie, Colorado, dated April 12, 2013, CTL Project No. FC05859.001

CTL | Thompson, Inc., Phase I Environmental Site Assessment, 4060 County Line Road, Erie, Colorado, dated June 7, 2012, CTL Project No. FC05859.000-200-R1

Additionally, we are including the most recent conceptual drawings for the future use of the Site, which can be found in **Appendix B**:

- Civil Resources, Erie Junction Construction Plans, June 8, 2021.
- Flatirons, Inc, Erie Junction Final Plat, May 5, 2021.
- Diverge Homes, Erie Junction Written Narrative, 2021.

1.2 Limitations

We believe this VCP Application document was prepared in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the locality of the project. No warranty, express or implied, is made by CTL.

1.3 Applicant Information

Owner/Applicant:	Diverge Homes
Contact Person:	Nick Jacobs 603 South Public Road Unit 765 Lafayette, Colorado 80026
Contact phone:	(720) 539-3786
Contact email:	nick.jacobs@divergehomes.com

1.4 Site Location

The Site is 2.79 acres located at 4060 County Line Road in Erie, Weld County, Colorado. The Site lies within the western half of Section 18, Township 1 North, Range 68 West of the Sixth Principal Meridian in Erie, Weld County, Colorado. According to the Weld County online GIS mapping application, the Site consists of Parcel Nos. 146718300013 and 1467148300003; these parcels have the following (abbreviated) legal description:

- Large parcel - ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK4 HUNTS 1ST ADD TO ERIE W TO W LN SEC S214.7' E526' N131.7' E96' N83' TO BEG (2.5A M/L); and

- Southeast corner parcel - ERI 24876 PT SW4 18-1-68 BEG 20'W OF SW COR L1 BLK2 HUNTS 1ST ADD W96' N131.7' E96' S131.7' TO BEG

1.5 Type of Contamination

The impacts to subsurface soils at the Site are the result of spills or releases of petroleum in relation to pre-cast concrete manufacturing on the Site, which took place from the early 1970s until the late 2010s. The primary contaminant of concern at the Site is petroleum hydrocarbons. During past investigations at the Site in 2012 and 2013, we observed odors of petroleum products inside the former pre-cast building and piles of improperly disposed wastes and hazardous material containers inside the former building and around the Site. Additionally, records indicated the presence of a gasoline underground storage tank of unknown size registered to the Site. The tank is listed in State records as having been removed, however, the files did not contain documentation to confirm the removal or to confirm that the UST location was assessed for releases at the time of the reported removal. A previous GPR survey was performed on the Site to determine the potential location of the UST. The survey was conducted on two likely locations, with apparent changes in soil density near the northeast corner of the building and approximately 20 feet further west. Based on test pits excavated at these locations, it was determined that the northeast corner of the building could have been the former UST location, although there was not sufficient evidence to confirm.

1.6 Current Use

According to historical aerial photographs, the Site had been in agricultural use from at least the late 1930s until it was developed with a large warehouse building in the early 1970s for a pre-cast concrete construction business. The former building was present on-Site until the late 2010s. The Site is now vacant land in a naturally vegetated state with gravel fill.

1.7 Planned Use

The proposed use of the Site includes a twenty-three unit multi-family residential development with associated on-grade parking garages and landscaping. Residential structures will have radon mitigation systems.

2.0 PROGRAM INCLUSION

2.1 Environmental Programs, Permits, and Notifications

According to information from the previous environmental reports, including our Phase II ESAs, the Site is not included in environmental programs, permits or notifications.

Note that future development of the Site will be served by municipal water and sewer systems. We do believe there one area of the Site, shown on Figure 2, that is likely to be excavated, has the potential for residual petroleum contamination in soil. We have included an MMP as an appendix to this report as an added measure. We are not applying for No Action Determination at this time; a No Action Determination Request will be submitted once earthwork at the Site is completed and vertical construction has begun.

3.0 ENVIRONMENTAL SITE ASSESSMENT

3.1 Statement of Qualifications

Mr. Wardlow is an Environmental Professional and a Professional Engineer licensed in the State of Colorado and has been conducting Phase I and Phase II ESAs for over 25 years. He has submitted at least 50 Voluntary Cleanup Applications / No Action Determination applications and assisted in data gathering in association with several other applications earlier in his career. His resume is included as **Appendix E** of this report.

3.2 General Site History

The Site appears to have been primarily vacant agricultural land until it was developed with a large warehouse building in the early 1970s for a pre-cast concrete construction business. The former building was present on-Site until the late 2010s. The building was then demolished, with up to five feet excavation below grade, between 2014 and 2015. Currently, the Site consists of vacant land with gravel fill. The surrounding area has been generally residential from at least the late 1930s.

3.3 Current Use and Zoning

The Site is in a commercial and residential area of Erie within Weld County. The Site consists of vegetated land with gravel fill. The uses of the surrounding properties are as follows:

- North: Properties located to the immediate north of the Site include single-family homes
- East: Properties located to the east of the Site include single-family homes
- South: The Site is bound on the southern border by Balcom Street with single-family homes beyond
- West: The Site is bound to the west by County Line Road with a farm and a daycare beyond

3.4 Summary of Previous Environmental Site Assessments and Investigations

Previous environmental investigations conducted at the Site, including figures and laboratory analytical data, are included in **Appendix A**.

CTL previously conducted a Phase I ESA for 4060 County Line Road under our Project Number FC05859.000-200-R1 dated June 7, 2012. This report found several RECs associated with the Site. The report considered potentially contaminated soil and groundwater from leaking drums, stockpiles with hazardous materials containers, improp-

er use or storage of hazardous materials, and a previous or existing underground storage tank. The report recommended a Phase II ESA to address these concerns.

CTL conducted a Phase II ESA for 4060 County Line Road under our Project Number FC05859.001, letter dated April 12, 2013. CTL subcontracted Ground Penetrating Radar Systems to conduct a GPR survey of locations believed to have been likely locations of a former gasoline UST. The GPR survey identified two locations with apparent changes in soil density near the northeast corner of the building and approximately 20 feet further west. Based on test pits excavated at these locations, it was determined that the northeast corner of the building could have been the former UST location, although there was not sufficient evidence to confirm. Additionally, eight borings were advanced around the Site at various locations to determine subsurface conditions. Of the soil samples collected, only the sample from the trench inside the pre-cast building contained petroleum hydrocarbons, although levels were less than the 500 mg/kg Colorado regulatory standard. Based on field observation and laboratory analytical results for the two samples collected from inside the former building, it appeared that concrete form release oil or other materials from the pre-cast operation impacted surface and subsurface soils. Groundwater samples taken outside the former building did not contain VOC levels above laboratory detection levels. This report recommended further investigation inside the former pre-cast building.

CTL conducted a Supplemental Phase II ESA for 4060 County Line Road under our Project Number FC05859.001, letter dated September 17, 2013. A total of eighteen surface soil samples and borings were collected inside the former pre-cast building. Of these samples, two surface samples contained Oil and Grease concentrations of 5,800 mg/kg and 1,500 mg/kg, above the Colorado limit of 500 mg/kg; these were found within or beneath a trench that was present in the building at that time. Toluene was detected in all four groundwater samples collected during this subsequent investigation, at concentrations up to 7.6 µg/l, which is well below the Colorado groundwater standard of 500 µg/l. None of the samples had detected levels of Oil and Grease, benzene, ethylbenzene, or xylenes above Method Detection Limits (MDLs). The report concluded that if the Site was enrolled into the Colorado Voluntary Cleanup (VCUP), a final Site development plan

would need to be prepared and a work plan developed in order to protect future workers' health and safety and to properly handle impacted materials, should they be encountered.

CTL conducted an additional Limited Phase II Environmental Site Assessment. On July 21, 2021, we collected shallow soil samples by boring with a hand auger. Soil samples were collected to an approximate depth of six (6) inches to three (3) feet at fifteen locations: three (3) in each of five (5) sections of the Site. In each of the five (5) sections, divided roughly east to west, we collected three aliquots, or subsamples, and then composited the three aliquots into one composite sample. These locations are presented in Figure 3. The samples were submitted for laboratory analysis for TCLP Lead, PAHs, and RCRA 8 Metals. RCRA 8 Metals, PAHs and TCLP Lead were not detected in concentrations above EPA Regional Screening Levels for residential soils (or in the case of TCLP Lead, was not detected). Arsenic was detected above the EPA RSL for residential soil; however, these concentrations do not exceed CDPHE guidance document standards and recommendations. Based on the laboratory results, as well as our field observations, the soils were determined to be suitable for disposal in a Subtitle D landfill, or potentially for re-use.

Previous ESAs are presented in **Appendix A**.

3.5 Groundwater Information

3.5.1 Groundwater Depths and Flow Direction

A preliminary Geotechnical Investigation report was completed on the Site by Cole Garner Geotechnical under their project number 20.22.172, report dated October 28, 2020. Strata found in the borings installed as part of the investigation consisted of about seven (7) to twelve (12) feet of primarily lean clay with varying amounts of sand. Sedimentary claystone or sandstone bedrock was encountered in three (3) of the nine (9) borings at depts of approximately 31 to 33 feet below existing grades. The report states that earthen fill may be present in areas of the Site where the former pre-cast building was razed.

Groundwater was encountered at 18 to 22 feet bgs in all nine (9) borings on the day of drilling. When the borings were checked four days later, groundwater was encountered between 17 to 20 feet in eight (8) of the nine (9) boreholes. It is our experience that shallow, unconfined groundwater is generally controlled by topography. Based on topography, we estimate the general direction of groundwater flow below the Site is to the east-northeast towards Coal Creek.

The Cole Garner Geotechnical report is presented in **Appendix A**.

3.5.2 Onsite Wells

There are no on-Site groundwater wells. Refer to Appendix A for more information.

3.5.3 Wells Within One Mile

A well map and selected well information from the Department of Water Resources (DWR) is provided in **Appendix C**. Four domestic wells are located adjacent and downgradient of the Site. There are approximately 50 domestic, irrigation, and livestock wells within one-half mile of the Site. Based on the type and concentration of contaminants at the Site, the depths of the wells, and/or the distances from and topographic location to the Site, we do not believe these wells have been impacted by petroleum contaminants at the Site.

4.0 APPLICABLE STANDARDS/RISK DETERMINATION

4.1 Summary of Contaminants

Investigations at the Site have not found any contaminants above RSLs on the Site, based on based on the laboratory analytical results from our Limited Phase II ESA, as outlined below. Laboratory analytical results from these investigations is included in **Appendix A**.

- Laboratory analytical results from the April 2012 Limited Phase II Environmental Site Assessment determined that a gasoline UST was possibly previously located adjacent to the northeast corner of the building, though there was not sufficient evidence to confirm this. Only the surficial soil sample collected from the trench inside the former pre-cast building contained petroleum hydrocarbons, though there was not sufficient evidence to confirm this. This investigation did not find evidence of a gasoline release. This investigation only found evidence of petroleum hydrocarbons in the sample collected from the trench inside the pre-cast building. The sample contained petroleum hydrocarbons at concentration less than the Colorado UST standard. Laboratory analytical results from our April 2012 sampling event is provided below, in Table I.

TABLE I
Soil Analytical Results

Sample	Depth (feet below grade)	Results (milligrams per kilogram [mg/kg])			
		TVPH	TEPH	Oil and Grease	VOCs
GP-1	21-22	< 0.5	< 10.0	<50.0	None detected
GP-2	21-22	< 0.5	< 10.0	<50.0	None detected
GP-3	21-22	< 0.5	< 10.0	<50.0	None detected
GP-4	22-23	< 0.5	< 10.0	<50.0	None detected
GP-5	22-23	< 0.5	< 10.0	<50.0	None detected
GP-6	20-22	< 0.5	< 10.0	<50.0	None detected
GP-7	20-21	< 0.5	< 10.0	<50.0	None detected
S-8	1-2	**0.95**	**65.5**	**316**	None detected
Colorado OPS Limit[1]	--	500	500	500	--

- In our subsequent Supplemental Phase II ESA conducted in September 2013, we determined that oil-contaminated soil within the former pre-cast building appeared to be limited to the area of the trench and at depths of less than 10 feet immediately north of the east end of the trench. Groundwater under the building contained toluene at concentrations well below Colorado groundwater standards. Laboratory analytical results from our September 2012 sampling even is provided below, in Tables II and III.

TABLE II
Soil Analytical Results – Interior Pre-Cast Building

Boring No.	Depth (feet)	Sample Date	O&G[1,2] (mg/kg[3])	Benzene (µg/kg[3])	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)
GP-2	21-22	3/26/2013	< 50	< 10	< 10	< 10	< 10
GP-9[4]	5	7/19/2013	< 110	< 5.4	< 5.4	< 5.4	< 5.4
GP-10[4]	5	7/19/2013	< 110	< 5.0	< 5.0	< 5.0	< 5.0

TABLE II Soil Analytical Results – Interior Pre-Cast Building							
Boring No.	Depth (feet)	Sample Date	O&G[1,2] (mg/kg[3])	Benzene (µg/kg[3])	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)
GP-11[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-12[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-13[4]	5	7/19/2013	< 110	< 4.8	< 4.8	< 4.8	< 4.8
GP-14[4]	5	7/19/2013	< 110	< 5.4	< 5.4	< 5.4	< 5.4
GP-15[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-16	5	7/19/2013	380	< 5.4	< 5.4	< 5.4	< 5.4
	10	7/19/2013	< 120	< 5.7	< 5.7	< 5.7	< 5.7
	15	7/19/2013	< 100	< 4.7	< 4.7	< 4.7	< 4.7
	20	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
S-8	1-2	3/26/2013	316	< 10	< 10	< 10	< 10
S-17	1-2	7/19/2013	**5800**	< 5.1	< 5.1	< 5.1	< 5.1
S-18	1-2	7/19/2013	**1500**	< 4.8	< 4.8	< 4.8	< 4.8
Colorado OPS Limit[5]			500	260	140000	190000	260000

1. Results in bold exceed regulatory comparison value
2. Total petroleum hydrocarbons as Oil & Grease by EPA Method 9071
3. mg/kg = milligrams per kilogram. µg/kg = micrograms per kilogram
4. Samples collected at 5-foot intervals, but only the samples from 5-foot depth were analyzed.
5. Colorado Department of Labor and Employment, Division of Oil and Public Safety, Tier I Risk-Based Screening Levels, 2005.

TABLE III Groundwater Analytical Results – Interior Pre-Cast Building						
Sample No.	Sample Date	Oil &Grease (mg/l[1])	Benzene (µg/l[1])	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)
GP-9	7/19/2013	< 5.7	< 1	7.6	< 1	< 1
GP-11	7/19/2013	< 5.3	< 1	2.6	< 1	< 1
GP-14	7/19/2013	< 5.6	< 1	1.3	< 1	< 1
GP-15	7/19/2013	< 5.6	< 1	0.56	< 1	< 1
Colorado GWS[2]		None established	5	560	700	1,400

1. mg/l = milligrams per liter. µg/liter = micrograms per liter
2. Colorado Department of Health and Environment, Water Quality Control Division, The Basic Standards for Groundwater (Regulation 41). 5 CCR 1002-41, January 31, 2013.

- In our subsequent Limited Phase II ESA conducted in August 2021, we did not detect PAHs in concentrations above EPA Regional Screening Levels for residential soils. TCLP Lead was not detected in the shallow soils within the two locations sampled. Arsenic was detected above the EPA RSL for residential soil; however, these concentrations did not exceed CDPHE guidance document standards/recommendations. Other RCRA metals were not identified in concentrations that exceeded the EPA RSLs for resi-

dential soil where a clear standard is provided. Laboratory analytical results from our July 2021 sampling event is provided below, in Table IV.

TABLE IV
Soil Analytical Results – November 6, 2020

	Analyte	S-1	S-2	S-3	S-4	S-5	EPA RSL (Residential Soils)
RCRA 8 Metals	Arsenic	**4.12**	**5.38**	**5.17**	**4.93**	**13.0**	0.68
	Barium	67.2	65.5	100	75.5	138	15,000
	Cadmium	ND	ND	0.301	ND	0.130	71
	Chromium	15.4	14.3	13.8	17.0	15.4	120,000
	Lead	10.3	6.78	16.6	9.50	506	400
	Selenium	ND	ND	ND	ND	ND	390
	Silver	ND	ND	ND	ND	ND	390
	Mercury	0.0462	0.0219	0.0261	0.0282	0.0122	11
TCLP		NA	NA	ND	NA	ND	
PAHs	1-Methylnaphthalene	ND	ND	ND	ND	ND	18
	2-Methylnaphthalene	ND	0.00259	ND	0.00204	ND	240
	Acenaphthene	ND	ND	ND	ND	ND	3,600
	Acenaphthylene	ND	ND	ND	ND	0.00247	NS
	Anthracene	ND	0.00481	ND	0.00204	0.00283	18,000
	Benzo(a)anthracene	ND	ND	ND	0.00238	00.954	1.1
	Benzo(a)pyrene	ND	ND	ND	0.00374	0.0106	0.11
	Benzo(b)fluoranthene	ND	ND	ND	0.00510	0.0212	1.1
	Benzo(ghi)perylene	ND	ND	ND	00.00680	0.00707	NS
	Benzo(k)fluoranthene	ND	ND	ND	ND	0.00742	11
	Chrysene	0.0380	ND	ND	0.00374	0.0141	110
	Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	0.11
	Fluoranthene	0.0531	0.00222	0.0106	0.00612	0.0138	2,400
	Fluorene	ND	ND	ND	ND	ND	2,400
	Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.00707	1.1
	Naphthalene	ND	ND	ND	ND	ND	2.0
	Phenanthrene	ND	0.0107	ND	0.00578	0.00460	NS
	Pyrene	0.0455	0.00296	0.00887	ND	0.0127	1,800

Note: All concentrations in milligrams per kilogram (mg/kg); Cyanide is in micrograms per kilogram (µg/kg)
EPA RSL = United States Environmental Protection Agency Regional Screening Level (Industrial) Summary Table (TR=1E-06, THQ=1.0) November 2020
ND = Not Detected
NS = No Standard
RED = Exceeds EPA RSL for Residential Soils

Planned use of the Site will include a 23-unit residential development with associated asphalt parking. Maximum excavations planned for Site redevelopment have not been determined. However, based on the planned use of the Site, significantly impacted

soils are not expected to be encountered. Groundwater was encountered at approximately 20' below ground during previous investigations at the Site. Radon mitigation systems are planned for residential structures.

4.2 Present Exposure Pathways

The following are the potential routes of exposure. Other routes of exposure, such as ingestion, are not considered realistic pathways for human exposure.

4.2.1 Excavation of Fill

We do not expect that significant contaminated fill and/or soils will be uncovered during redevelopment, but pockets and/or residual contaminants may be found, such as beneath the former trench within the former building (See Figure 2). The level of dermal exposure to workers from on-Site contaminants will be minimal due to the use of excavation equipment and PPE during redevelopment.

Per the October 2020 Preliminary Geotechnical Engineering Report by Cole-Garner, it appears the majority of on-Site fill and soils will remain in place and be re-compacted. As Site redevelopment progresses, visual or olfactory observations made by Site workers and/or the CTL technician may indicate that soils are impacted with petroleum products, and the MMP will be followed. However, given our findings from our investigations, we expect such observations to be minimal. Should significant petroleum impacts to soils be uncovered during Site redevelopment, an environmental technician will collect soil samples for laboratory analysis per the MMP and, if necessary, further delineation or waste disposal characterization.

Our previous environmental investigations indicated that petroleum impacted soils at the Site are located at depths of less than 10 feet bgs. Groundwater was encountered at approximately 20' bgs during our September 2012 investigation at the Site, and is not expected to be encountered during construction. Therefore, dermal and inhalation exposure for workers at the Site is expected to be minimal.

4.2.2 Drill Cuttings

The future building is not planned to be on piers. Per the October 2020 Preliminary Geotechnical Engineering Report by Cole-Garner "It is our opinion that the proposed residential buildings for the project can be supported on conventional spread-type footings when bearing on approved native soils or a zone of newly-placed engineered fill. In order to provide for more uniform support, existing fill soils (where present) should be removed and recompacted to a relatively uniform depth below the entire footprint of the proposed structures…We believe conventional slab-on-grade floors can be utilized with a relatively low risk of post-construction floor slab movement". Therefore, drill cuttings are not expected to be used and therefore are not an exposure pathway to construction workers, via either inhalation or dermal contact.

4.3 Future Building Occupants

The only potential pathway for future occupants to be exposed to contaminants is via inhalation of Toluene that volatizes up from groundwater. To that end, per our conversations with the applicant (Nick Jacobs) in September 2021, the buildings will be equipped with radon mitigation systems, which would mitigate whatever minimal inhalation risk is present from groundwater.

5.0 PROPOSED REMEDIATION

We do not believe that Site development will encounter significantly contaminated soils, based on our previous studies. Concentrations of VOCs and PAHs in soils to date are well below applicable standards and guidance, or were non-detected. We do believe there is one area of the Site, shown on Figure 2 (former trench), that is likely to be excavated that has the potential for residual petroleum contamination in soil. However, a Materials Management Plan is included in **Appendix D** and will be utilized to properly deal with impacted soils, should they be encountered during redevelopment of the Site. Based on our understanding of construction plans, and the planned use of radon-mitigation systems for the lowest living units at the Site, we do not believe there is an inhalation risk to building occupants from volatilization of Toluene from the groundwater at the Site.

If you have any questions, or need additional information, please feel free to call us at (303) 825-0777.

Sincerely,

CTL | THOMPSON, INC.

Christine Whitacre
Environmental Scientist

Reviewed by:

Matthew L. Wardlow, P.E.
Environmental Department Manager

CMW:MLW/nn

Via e-mail: nick.jacobs@divergehomes.com

REFERENCES

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Flatirons, Inc. Erie Junction Final Plat. May 2021.

Civil Resources, LLC, Erie Junction Construction Plans. June 2021

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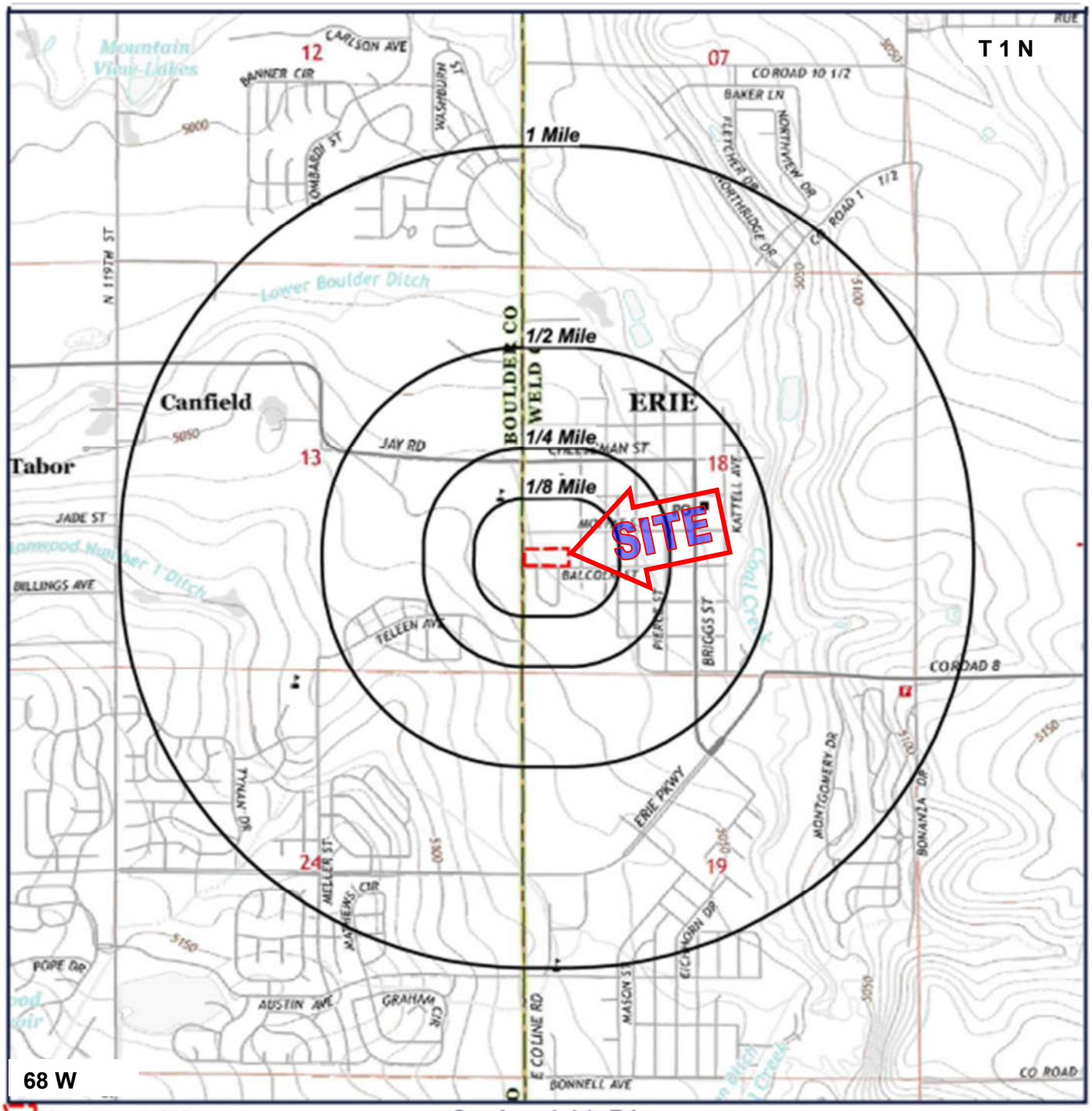
CTL | Thompson, Inc., Supplemental Phase II Environmental Assessment, 4060 County Line Road, dated September 17, 2012, CTL Project No. FC05859.001-205-R2

"DWR Well Permit Research Viewer". *Colorado's Decision Support Systems*, 2021 https://gis.colorado.gov/dnrviewer/Index.html?viewer=dwrwellpermit

Environmental Protection Agency, “Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Tank Sites,” EPA 510-R-15-001, August 2021.

Voluntary Cleanup Roadmap, A How-To Guide, CDPHE HMWMD, November 2019



DIVERGE HOMES
4060 COUNTY LINE ROAD
LIMITED PHASE II ESA
CTL PROJECT NO. FC10041.000-200-R1

TOPOGRAPHIC AREA MAP
FIG. 1

DIVERGE HOMES
4060 COUNTY LINE ROAD
CTL PROJECT NO. FC10041.000-200-R1

SITE MAP
FIGURE 2

DIVERGE HOMES
4060 COUNTY LINE ROAD
CTL PROJECT NO. FC10041.000-205-L1

SITE MAP
FIGURE 2

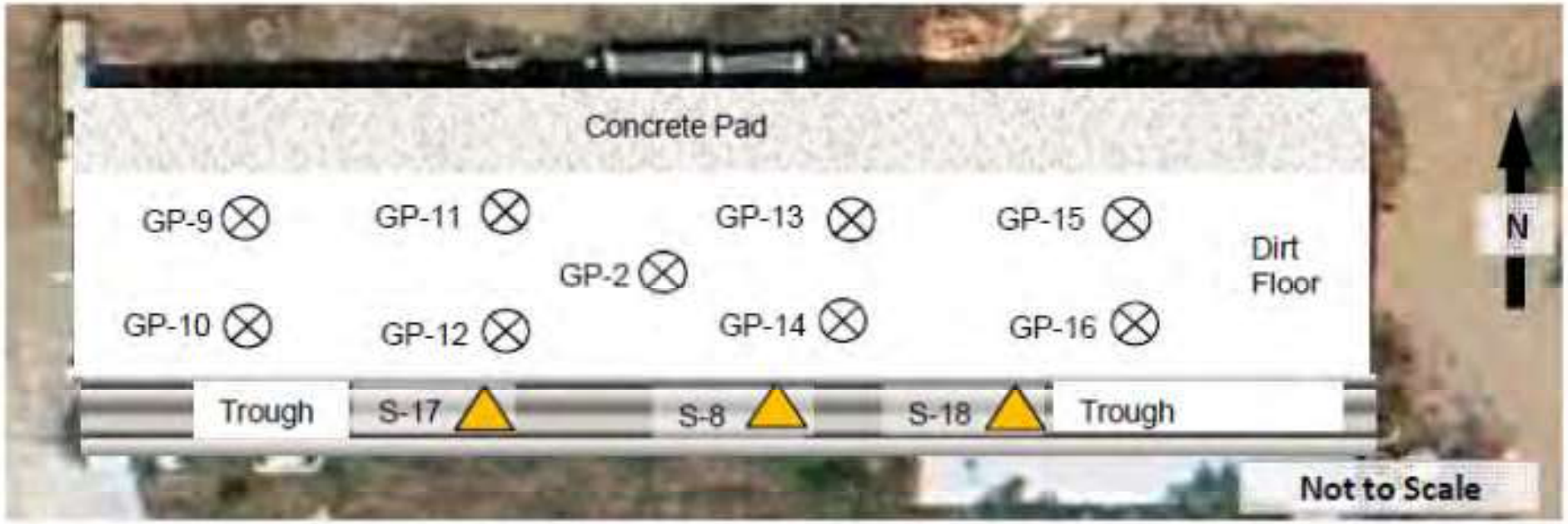


Figure 1

Warehouse Sample Locations

Supplemental Phase II Environmental Site Assessment

4060 County Line Road, Erie, Colorado

CTL No. FC05859.001

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

Boring location

GPR survey area

Test pit location

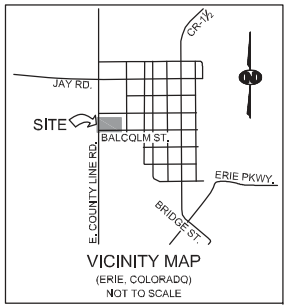


Figure 2
Phase II ESA
Boring Locations
4060 County Line Road
Erie, Colorado FC05859.001

ORIGINS LABORATORY, INC

August 03, 2021

CTL Thompson, Inc.

Chrissy Whitacre

1971 West 12th Avenue

Denver CO 80204

Project Name - 4060 County Line Road **Project Number - FC10041**

Attached are your analytical results for 4060 County Line Road received by Origins Laboratory, Inc. July 21, 2021. This project is associated with Origins project number Y107422-01.

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, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	Y107422-01	Soil	July 21, 2021 8:00	07/21/2021 14:30
S-2	Y107422-02	Soil	July 21, 2021 9:00	07/21/2021 14:30
S-3	Y107422-03	Soil	July 21, 2021 10:00	07/21/2021 14:30
S-4	Y107422-04	Soil	July 21, 2021 11:00	07/21/2021 14:30
S-5	Y107422-05	Soil	July 21, 2021 12:00	07/21/2021 14:30

TCLP Pb added to sample S-5 per the phone call from John on 07/28/2021. JEP

Origins Laboratory, Inc.

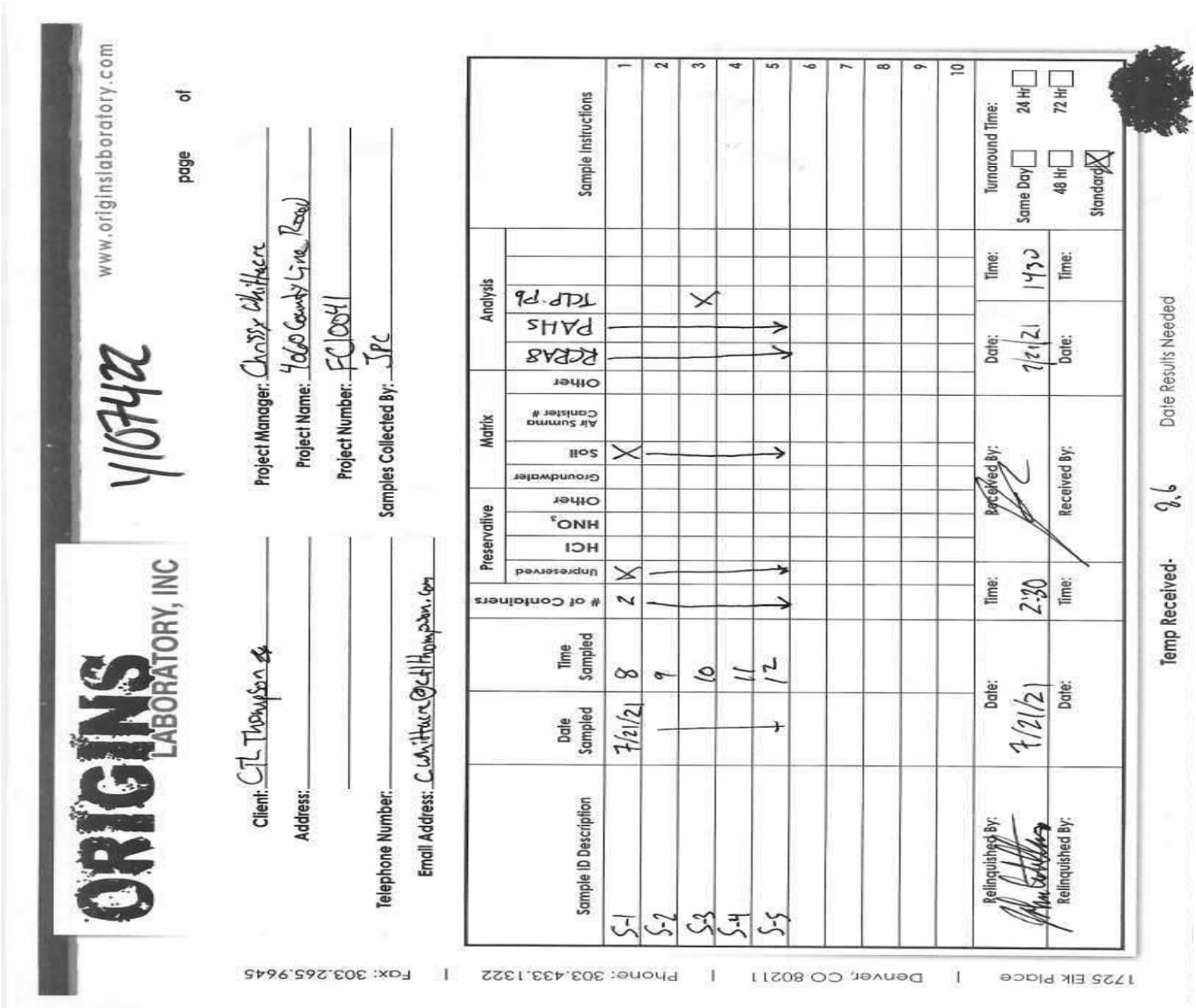
Jen Pellegrini For Noelle Doyle Mathis, President

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.

ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road



Origins Laboratory, Inc.

Jen Pellegrini

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Jen Pellegrini For Noelle Doyle Mathis, President

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107422
Client: CTL
Client Project ID: 4060 County Line Rd.
Checklist Completed by: JG
Date/time completed: 7/21/21
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #:
Matrix(s) Received: (Check all that apply): X Soil/Solid ____Water ____Other:____
Cooler Number/Temperature: 1 / 3.6 °C ____/____°C ____/____°C ____/____°C (Describe)
Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?		✓		Same Day
Is there ice present (document if blue ice is used)	—			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
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) 7/22/21 Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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Jen Pellegrini For Noelle Doyle Mathis, President

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-1
7/21/2021 8:00:00AM

GEL Laboratories, LLC
Y107422-01 (Soil)

PAH by 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.0759	mg/kg dry	20	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	ND	0.0759	"	"	"	LXA1	"	"	U
Acenaphthene	ND	0.0759	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.0759	"	"	"	LXA1	"	"	U
Anthracene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(a)anthracene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(a)pyrene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(b)fluoranthene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(ghi)perylene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(k)fluoranthene	ND	0.0759	"	"	"	LXA1	"	"	U
Chrysene	**0.0380**	0.0759	"	"	"	LXA1	"	"	J
Dibenzo(a,h)anthracene	ND	0.0759	"	"	"	LXA1	"	"	U
Fluoranthene	**0.0531**	0.0759	"	"	"	LXA1	"	"	J
Fluorene	ND	0.0759	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.0759	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.0759	"	"	"	LXA1	"	"	U
Phenanthrene	ND	0.0759	"	"	"	LXA1	"	"	U
Pyrene	**0.0455**	0.0759	"	"	"	LXA1	"	"	J
Surrogate: 5-alpha-Androstane	*288 %*	*25-121*			"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-1
7/21/2021 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
GEL Laboratories, LLC									
Y107422-01 (Soil)									
Total Metals by 6010C									
Arsenic	**4.12**	3.31	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**67.2**	0.552	"	"	"	TXT1	"	"	
Cadmium	ND	0.552	"	"	"	TXT1	"	"	U
Chromium	**15.4**	1.10	"	"	"	TXT1	"	"	
Lead	**10.3**	2.21	"	"	"	TXT1	"	"	
Selenium	ND	33.1	"	10	"	TXT1	"	"	U
Silver	ND	0.552	"	1	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0462**	0.0277	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-2
7/21/2021 9:00:00AM

GEL Laboratories, LLC
Y107422-02 (Soil)

PAH by 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.00370	mg/kg dry	1	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	**0.00259**	0.00370	"	"	"	LXA1	"	"	J
Acenaphthene	ND	0.00370	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.00370	"	"	"	LXA1	"	"	U
Anthracene	**0.00481**	0.00370	"	"	"	LXA1	"	"	
Benzo(a)anthracene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(a)pyrene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(b)fluoranthene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(ghi)perylene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(k)fluoranthene	ND	0.00370	"	"	"	LXA1	"	"	U
Chrysene	ND	0.00370	"	"	"	LXA1	"	"	U
Dibenzo(a,h)anthracene	ND	0.00370	"	"	"	LXA1	"	"	U
Fluoranthene	**0.00222**	0.00370	"	"	"	LXA1	"	"	J
Fluorene	ND	0.00370	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00370	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.00370	"	"	"	LXA1	"	"	U
Phenanthrene	**0.0107**	0.00370	"	"	"	LXA1	"	"	
Pyrene	**0.00296**	0.00370	"	"	"	LXA1	"	"	J
Surrogate: 5-alpha-Androstane	*81 %*	*25-121*			"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-2
7/21/2021 9:00:00AM

GEL Laboratories, LLC
Y107422-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Total Metals by 6010C									
Arsenic	**5.38**	3.05	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**65.5**	0.509	"	"	"	TXT1	"	"	
Cadmium	ND	0.509	"	"	"	TXT1	"	"	U
Chromium	**14.3**	1.02	"	"	"	TXT1	"	"	
Lead	**6.78**	2.04	"	"	"	TXT1	"	"	
Selenium	ND	305	"	100	"	TXT1	"	"	U
Silver	ND	0.509	"	1	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0219**	0.0233	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	J

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-3
7/21/2021 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

GEL Laboratories, LLC
Y107422-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0177	mg/kg dry	5	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	ND	0.0177	"	"	"	LXA1	"	"	U
Acenaphthene	ND	0.0177	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.0177	"	"	"	LXA1	"	"	U
Anthracene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(a)anthracene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(a)pyrene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(b)fluoranthene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(ghi)perylene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(k)fluoranthene	ND	0.0177	"	"	"	LXA1	"	"	U
Chrysene	ND	0.0177	"	"	"	LXA1	"	"	U
Dibenzo(a,h)anthracene	ND	0.0177	"	"	"	LXA1	"	"	U
Fluoranthene	**0.0106**	0.0177	"	"	"	LXA1	"	"	J
Fluorene	ND	0.0177	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.0177	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.0177	"	"	"	LXA1	"	"	U
Phenanthrene	ND	0.0177	"	"	"	LXA1	"	"	U
Pyrene	**0.00887**	0.0177	"	"	"	LXA1	"	"	J

Surrogate: 5-alpha-Androstane *103 %* *25-121* " " "

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-3
7/21/2021 10:00:00AM

GEL Laboratories, LLC
Y107422-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
TCLP Metals by 1311/6010C									
Lead	ND	0.200	mg/L	1	2154193	LS	07/23/2021	07/26/2021	U
Total Metals by 6010C									
Arsenic	**5.17**	3.10	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**100**	0.517	"	"	"	TXT1	"	"	
Cadmium	**0.301**	0.517	"	"	"	TXT1	"	"	J
Chromium	**13.8**	1.03	"	"	"	TXT1	"	"	
Lead	**16.6**	2.07	"	"	"	TXT1	"	"	
Selenium	ND	3.10	"	"	"	TXT1	"	"	U
Silver	ND	0.517	"	"	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0261**	0.0250	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-4
7/21/2021 11:00:00AM

GEL Laboratories, LLC
Y107422-04 (Soil)

PAH by 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.00340	mg/kg dry	1	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	**0.00204**	0.00340	"	"	"	LXA1	"	"	J
Acenaphthene	ND	0.00340	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.00340	"	"	"	LXA1	"	"	U
Anthracene	**0.00204**	0.00340	"	"	"	LXA1	"	"	J
Benzo(a)anthracene	**0.00238**	0.00340	"	"	"	LXA1	"	"	J
Benzo(a)pyrene	**0.00374**	0.00340	"	"	"	LXA1	"	"	
Benzo(b)fluoranthene	**0.00510**	0.00340	"	"	"	LXA1	"	"	
Benzo(ghi)perylene	**0.00680**	0.00340	"	"	"	LXA1	"	"	
Benzo(k)fluoranthene	ND	0.00340	"	"	"	LXA1	"	"	U
Chrysene	**0.00374**	0.00340	"	"	"	LXA1	"	"	
Dibenzo(a,h)anthracene	ND	0.00340	"	"	"	LXA1	"	"	U
Fluoranthene	**0.00612**	0.00340	"	"	"	LXA1	"	"	
Fluorene	ND	0.00340	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00340	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.00340	"	"	"	LXA1	"	"	U
Phenanthrene	**0.00578**	0.00340	"	"	"	LXA1	"	"	
Pyrene	ND	0.00340	"	"	"	LXA1	"	"	U
Surrogate: 5-alpha-Androstane	*102 %*	*25-121*			"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-4
7/21/2021 11:00:00AM

GEL Laboratories, LLC
Y107422-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Total Metals by 6010C									
Arsenic	**4.93**	3.06	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**75.5**	0.510	"	"	"	TXT1	"	"	
Cadmium	ND	2.55	"	5	"	TXT1	"	"	U
Chromium	**17.0**	1.02	"	1	"	TXT1	"	"	
Lead	**9.50**	2.04	"	"	"	TXT1	"	"	
Selenium	ND	306	"	100	"	TXT1	"	"	U
Silver	ND	2.55	"	5	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0282**	0.0241	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-5
7/21/2021 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

GEL Laboratories, LLC

Y107422-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00353	mg/kg dry	1	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	ND	0.00353	"	"	"	LXA1	"	"	U
Acenaphthene	ND	0.00353	"	"	"	LXA1	"	"	U
Acenaphthylene	**0.00247**	0.00353	"	"	"	LXA1	"	"	J
Anthracene	**0.00283**	0.00353	"	"	"	LXA1	"	"	J
Benzo(a)anthracene	**0.00954**	0.00353	"	"	"	LXA1	"	"	
Benzo(a)pyrene	**0.0106**	0.00353	"	"	"	LXA1	"	"	
Benzo(b)fluoranthene	**0.0212**	0.00353	"	"	"	LXA1	"	"	
Benzo(ghi)perylene	**0.00707**	0.00353	"	"	"	LXA1	"	"	
Benzo(k)fluoranthene	**0.00742**	0.00353	"	"	"	LXA1	"	"	
Chrysene	**0.0141**	0.00353	"	"	"	LXA1	"	"	
Dibenzo(a,h)anthracene	ND	0.00353	"	"	"	LXA1	"	"	U
Fluoranthene	**0.0138**	0.00353	"	"	"	LXA1	"	"	
Fluorene	ND	0.00353	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	**0.00707**	0.00353	"	"	"	LXA1	"	"	
Naphthalene	ND	0.00353	"	"	"	LXA1	"	"	U
Phenanthrene	**0.00460**	0.00353	"	"	"	LXA1	"	"	
Pyrene	**0.0127**	0.00353	"	"	"	LXA1	"	"	
Surrogate: 5-alpha-Androstane	*111 %*	*25-121*			"		"	"	

TCLP Metals by 1311/6010C

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Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-5
7/21/2021 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
GEL Laboratories, LLC									
Y107422-05 (Soil)									
TCLP Metals by 1311/6010C									
Lead	ND	0.200	mg/L	1	2156748	LS	07/30/2021	08/02/2021	U
Total Metals by 6010C									
Arsenic	**13.0**	3.23	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**138**	0.538	"	"	"	TXT1	"	"	
Cadmium	**0.130**	0.538	"	"	"	TXT1	"	"	J
Chromium	**15.4**	1.08	"	"	"	TXT1	"	"	
Lead	**506**	2.15	"	"	"	TXT1	"	"	
Selenium	ND	64.6	"	20	"	TXT1	"	"	U
Silver	ND	5.38	"	10	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0122**	0.0217	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	J

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Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

TCLP Metals by 1311/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154193 - SW846 3010A										
TB (1204869652-BLK)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	ND	0.200	mg/L				-			U
MS (1204869653 S)		**Source: Y107422-03**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	4.68	0.200	mg/L	5.00	<0.0330	93.5	75-125			
BLANK (1204870702-BLK)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	ND	0.200	mg/L				-			U
LCS (1204870703-BKS)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	4.91	0.200	mg/L	5.00		98.2	80-120			
DUP (1204870704 D)		**Source: Y107422-03**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	ND	0.200	mg/L		<0.0330		0-20	90	20	U
Batch 2156748 - SW846 3010A										
TB (1204874420-BLK)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L				-			U
MS (1204874421 S)		**Source: Y107422-05**			Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	4.71	0.200	mg/L	5.00	<0.0330	93.8	75-125			
TB (1204875440-BLK)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L				-			U
BLANK (1204875846-BLK)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L				-			U

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Chrissy Whitacre
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Project: 4060 County Line Road

TCLP Metals by 1311/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2156748 - SW846 3010A										
LCS (1204875847-BKS)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	4.93	0.200	mg/L	5.00		98.6	80-120			
DUP (1204875848 D)		**Source: Y107422-05**			Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L		<0.0330		0-20	6.17	20	U

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PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
BLANK (1204870973-BLK)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Dibenzo(a,h)anthracene	ND	0.00332	mg/kg				-			U
Benzo(ghi)perylene	ND	0.00332	"				-			U
Pyrene	ND	0.00332	"				-			U
Phenanthrene	ND	0.00332	"				-			U
Naphthalene	ND	0.00332	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"				-			U
Fluoranthene	ND	0.00332	"				-			U
Chrysene	ND	0.00332	"				-			U
Benzo(k)fluoranthene	ND	0.00332	"				-			U
Fluorene	ND	0.00332	"				-			U
Benzo(b)fluoranthene	ND	0.00332	"				-			U
2-Methylnaphthalene	ND	0.00332	"				-			U
1-Methylnaphthalene	ND	0.00332	"				-			U
Acenaphthene	ND	0.00332	"				-			U
Acenaphthylene	ND	0.00332	"				-			U
Anthracene	ND	0.00332	"				-			U
Benzo(a)anthracene	ND	0.00332	"				-			U
Benzo(a)pyrene	ND	0.00332	"				-			U
Surrogate: 5-alpha-Androstane	*0.167*		"	*0.166*		*101*	*25-121*			
LCS (1204870974-BKS)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Naphthalene	0.200	0.00329	mg/kg	0.329		61	52-106			
Phenanthrene	0.211	0.00329	"	0.329		64	53-106			
Benzo(k)fluoranthene	0.199	0.00329	"	0.329		60	39-119			
Fluorene	0.218	0.00329	"	0.329		66	42-113			
Fluoranthene	0.218	0.00329	"	0.329		66	43-116			
Dibenzo(a,h)anthracene	0.224	0.00329	"	0.329		68	40-137			

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
LCS (1204870974-BKS)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Chrysene	0.198	0.00329	mg/kg	0.329		60	53-108			
Indeno(1,2,3-cd)pyrene	0.233	0.00329	"	0.329		71	40-132			
Benzo(ghi)perylene	0.225	0.00329	"	0.329		68	35-121			
Benzo(b)fluoranthene	0.204	0.00329	"	0.329		62	42-119			
Benzo(a)anthracene	0.178	0.00329	"	0.329		54	51-118			
Acenaphthene	0.206	0.00329	"	0.329		63	48-107			
2-Methylnaphthalene	0.206	0.00329	"	0.329		63	50-109			
1-Methylnaphthalene	0.198	0.00329	"	0.329		60	50-109			
Pyrene	0.183	0.00329	"	0.329		56	42-114			
Benzo(a)pyrene	0.222	0.00329	"	0.329		68	42-123			
Acenaphthylene	0.220	0.00329	"	0.329		67	42-114			
Anthracene	0.221	0.00329	"	0.329		67	49-113			
Surrogate: 5-alpha-Androstane	*0.183*		*"*	*0.164*		*112*	*25-121*			
LCSD (1204870975-BKSD)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Fluorene	0.236	0.00333	mg/kg	0.333		71	42-113	8	30	
Benzo(b)fluoranthene	0.226	0.00333	"	0.333		68	42-119	10	30	
Pyrene	0.200	0.00333	"	0.333		60	42-114	9	30	
Phenanthrene	0.228	0.00333	"	0.333		69	53-106	8	30	
Indeno(1,2,3-cd)pyrene	0.256	0.00333	"	0.333		77	40-132	9	30	
Fluoranthene	0.236	0.00333	"	0.333		71	43-116	8	30	
Dibenzo(a,h)anthracene	0.247	0.00333	"	0.333		74	40-137	10	30	
Chrysene	0.216	0.00333	"	0.333		65	53-108	9	30	
Benzo(k)fluoranthene	0.218	0.00333	"	0.333		66	39-119	9	30	
Benzo(a)anthracene	0.194	0.00333	"	0.333		58	51-118	8	30	
Naphthalene	0.213	0.00333	"	0.333		64	52-106	7	30	
Benzo(a)pyrene	0.244	0.00333	"	0.333		73	42-123	9	30	

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
LCSD (1204870975-BKSD)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Benzo(ghi)perylene	0.247	0.00333	mg/kg	0.333		74	35-121	9	30	
Anthracene	0.239	0.00333	"	0.333		72	49-113	8	30	
Acenaphthylene	0.242	0.00333	"	0.333		73	42-114	9	30	
Acenaphthene	0.224	0.00333	"	0.333		67	48-107	9	30	
2-Methylnaphthalene	0.221	0.00333	"	0.333		66	50-109	7	30	
1-Methylnaphthalene	0.214	0.00333	"	0.333		64	50-109	8	30	
Surrogate: 5-alpha-Androstane	*0.181*		*"*	*0.166*		*109*	*25-121*			
MS (1204870976 S)		**Source: Y107422-01**			Prepared: 07/26/2021 Analyzed: 07/27/2021					
Benzo(k)fluoranthene	0.300	0.0768	mg/kg dry	0.384	<0.0253	78	26-130			
Acenaphthene	0.315	0.0768	"	0.384	<0.0253	82	29-118			
Phenanthrene	0.330	0.0768	"	0.384	<0.0253	86	27-124			
Naphthalene	0.307	0.0768	"	0.384	<0.0253	80	29-122			
Indeno(1,2,3-cd)pyrene	0.307	0.0768	"	0.384	<0.0253	80	14-132			
Fluorene	0.330	0.0768	"	0.384	<0.0253	86	26-123			
Fluoranthene	0.338	0.0768	"	0.384	0.0531	74	21-122			
Dibenzo(a,h)anthracene	0.307	0.0768	"	0.384	<0.0253	80	16-139			
Chrysene	0.307	0.0768	"	0.384	0.0380	70	31-119			
Pyrene	0.300	0.0768	"	0.384	0.0455	66	19-139			
2-Methylnaphthalene	0.315	0.0768	"	0.384	<0.0253	82	23-124			
Benzo(b)fluoranthene	0.315	0.0768	"	0.384	<0.0253	82	22-130			
Benzo(a)pyrene	0.338	0.0768	"	0.384	<0.0253	88	24-129			
Benzo(a)anthracene	0.276	0.0768	"	0.384	<0.0253	72	31-124			
Acenaphthylene	0.338	0.0768	"	0.384	<0.0253	88	27-122			
1-Methylnaphthalene	0.307	0.0768	"	0.384	<0.0253	80	30-129			
Benzo(ghi)perylene	0.300	0.0768	"	0.384	<0.0253	78	16-124			
Anthracene	0.330	0.0768	"	0.384	<0.0253	86	29-127			

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
MS (1204870976 S)		**Source: Y107422-01**			Prepared: 07/26/2021 Analyzed: 07/27/2021					
Surrogate: 5-alpha-Androstane	*0.238*		*mg/kg dry*	*0.192*	*0.546*	*124*	*25-121*			
MSD (1204870977 SD)		**Source: Y107422-01**			Prepared: 07/26/2021 Analyzed: 07/27/2021					
Benzo(k)fluoranthene	0.202	0.0776	mg/kg dry	0.388	<0.0256	52	26-130	39	30	
Chrysene	0.210	0.0776	"	0.388	0.0380	44	31-119	38	30	
Phenanthrene	0.217	0.0776	"	0.388	<0.0256	56	27-124	41	30	
Dibenzo(a,h)anthracene	0.210	0.0776	"	0.388	<0.0256	54	16-139	38	30	
Fluoranthene	0.225	0.0776	"	0.388	0.0531	44	21-122	40	30	
Fluorene	0.217	0.0776	"	0.388	<0.0256	56	26-123	41	30	
Naphthalene	0.202	0.0776	"	0.388	<0.0256	52	29-122	41	30	
Anthracene	0.225	0.0776	"	0.388	<0.0256	58	29-127	38	30	
Benzo(ghi)perylene	0.202	0.0776	"	0.388	<0.0256	52	16-124	39	30	
Indeno(1,2,3-cd)pyrene	0.210	0.0776	"	0.388	<0.0256	54	14-132	38	30	
Pyrene	0.194	0.0776	"	0.388	0.0455	38	19-139	43	30	
1-Methylnaphthalene	0.210	0.0776	"	0.388	<0.0256	54	30-129	38	30	
2-Methylnaphthalene	0.210	0.0776	"	0.388	<0.0256	54	23-124	40	30	
Acenaphthene	0.210	0.0776	"	0.388	<0.0256	54	29-118	40	30	
Acenaphthylene	0.225	0.0776	"	0.388	<0.0256	58	27-122	40	30	
Benzo(a)anthracene	0.186	0.0776	"	0.388	<0.0256	48	31-124	39	30	
Benzo(a)pyrene	0.225	0.0776	"	0.388	<0.0256	58	24-129	40	30	
Benzo(b)fluoranthene	0.210	0.0776	"	0.388	<0.0256	54	22-130	40	30	
Surrogate: 5-alpha-Androstane	*0.163*		*"*	*0.194*	*0.546*	*84*	*25-121*			

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1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Total Metals by 6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2153704 - SW846 3050B										
BLANK (1204869797-BLK)					Prepared: 07/22/2021 Analyzed: 07/23/2021					
Barium	ND	0.498	mg/kg				-			U
Silver	ND	0.498	"				-			U
Selenium	ND	2.99	"				-			U
Lead	ND	1.99	"				-			U
Cadmium	ND	0.498	"				-			U
Arsenic	ND	2.99	"				-			U
Chromium	ND	0.996	"				-			U
LCS (1204869798-BKS)					Prepared: 07/22/2021 Analyzed: 07/23/2021					
Silver	9.50	0.473	mg/kg	9.47		100	80-120			
Arsenic	46.3	2.84	"	47.3		97.7	80-120			
Barium	46.5	0.473	"	47.3		98.2	80-120			
Cadmium	46.1	0.473	"	47.3		97.3	80-120			
Chromium	46.9	0.947	"	47.3		99	80-120			
Selenium	46.9	2.84	"	47.3		99	80-120			
Lead	46.5	1.89	"	47.3		98.1	80-120			
DUP (1204869799 D)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					
Arsenic	5.34	3.14	mg/kg dry		4.12		0-20	25.7	20	
Barium	71.3	0.523	"		67.2		0-20	6	20	
Cadmium	ND	0.523	"		<0.105		0-20	11	20	U
Chromium	15.7	1.05	"		15.4		0-20	2.22	20	
Lead	11.9	2.09	"		10.3		0-20	14.5	20	
Selenium	ND	31.4	"		<5.23		0-20	46	20	U
Silver	ND	0.523	"		<0.105		0-20	13.5	20	U
MS (1204869800 S)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Total Metals by 6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2153704 - SW846 3050B										
MS (1204869800 S)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					
Barium	127	0.558	mg/kg dry	55.8	67.2	106	75-125			
Silver	11.0	0.558	"	11.2	<0.112	97.7	75-125			
Selenium	24.8	33.5	"	55.8	<5.58	44.4	75-125			
Lead	61.6	2.23	"	55.8	10.3	91.9	75-125			
Cadmium	49.9	0.558	"	55.8	<0.112	89.5	75-125			
Arsenic	57.2	3.35	"	55.8	4.12	95.1	75-125			
Chromium	68.0	1.12	"	55.8	15.4	94.2	75-125			
PS (1204870788 S)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					
Selenium	5.72	0.351	mg/kg dry	0.500		97.8	75-125			

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Total Metals by 7471A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154000 - SW846 7471A Prep										
BLANK (1204870396-BLK)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	ND	0.0233	mg/kg				-			U
LCS (1204870397-BKS)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	0.243	0.0235	mg/kg	0.235		103	80-120			
DUP (1204870402 D)		**Source: 549304001**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	ND	0.0246	mg/kg dry		0.00766		0-20	5.58	20	U
MS (1204870403 S)		**Source: 549304001**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	0.258	0.0238	mg/kg dry	0.238	0.00766	105	80-120			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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.

ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Notes and Definitions

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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.

1307521

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

Oil and Grease:
The samples were prepared and analyzed according to SW-846, 3rd Edition procedures based on Method SW-9071 and utilizing the current revision of SOP 640.

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307521
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-16 (10')	1307521-1		SOIL	19-Jul-13	12:15
GP-16 (15')	1307521-2		SOIL	19-Jul-13	12:20
GP-16 (20')	1307521-3		SOIL	19-Jul-13	12:30

1307521 7/23/13

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 1 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC 05859.001-205	SITE ID	–
		EDD FORMAT	–
		PURCHASE ORDER	–
COMPANY NAME	CTL Thompson	BILL TO COMPANY	SAA
SEND REPORT TO	Dana Harris	INVOICE ATTN TO	
ADDRESS	351 Linden St. #140	ADDRESS	
CITY / STATE / ZIP	Fort Collins, CO 80524	CITY / STATE / ZIP	
PHONE	970-206-9455	PHONE	
FAX		FAX	
E-MAIL	dharris@ctlthompson.com	E-MAIL	

DATE 7/19/13

TURNAROUND Standard/1 wk.

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	9071 Oil + Grease	8260 BTEX
1	GP-9 (5')	S	7/19/13	0805	2			X	X
2	GP-10 (5')	S	7/19/13	0840 0855	2			X	X
3	GP-11 (5')	S	7/19/13	0930 0950	2			X	X
4	GP-12 (5')	S	7/19/13	0935 1000	2			X	X
5	GP-13 (5')	S	7/19/13	1040	2			X	X
6	GP-14 (5')	S	7/19/13	1110	2			X	X
7	GP-15 (5')	S	7/19/13	1140	2			X	X
8	GP-16 (5')	S	7/19/13	1210	2			X	X
9	S-17	S	7/19/13	1410	2			X	X
10	S-18	S	7/19/13	1420	2			X	X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- [X] LEVEL II (Standard QC)
- [ ] LEVEL III (Std QC + forms)
- [ ] LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

3 of 10

1307521 7/24/13

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 2 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001 - 205	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	CTL Thompson	BILL TO COMPANY	
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS		ADDRESS	
CITY / STATE / ZIP		CITY / STATE / ZIP	
PHONE		PHONE	
FAX		FAX	
E-MAIL		E-MAIL	

DATE: 7/19/13

TURNAROUND:

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
11	GP-9 (10')	S	7/19/13	0810	2			HOLD
12	GP-9 (15')	S	7/19/13	0820	2			HOLD
13	GP-9 (20')	S	7/19/13	0830	2			HOLD
14	GP-10 (10')	S	7/19/13	0855	2			HOLD
15	GP-10 (15')	S	7/19/13	0905	2			HOLD
16	GP-10 (20')	S	7/19/13	0915	2			HOLD
17	GP-11 (10')	S	7/19/13	0935	2			HOLD
18	GP-11 (15')	S	7/19/13	0945	2			HOLD
19	GP-11 (20')	S	7/19/13	0955	2			HOLD
20	GP-12 (10')	S	7/19/13	1005	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- LEVEL II (Standard QC)
- LEVEL III (Std QC + forms)
- LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		LaurenSchmitt	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1307521 7/23/13

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 3 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CCR Esse	SAMPLER	Dave Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	CTL Thompson	BILL TO COMPANY	
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS		ADDRESS	
CITY / STATE / ZIP		CITY / STATE / ZIP	
PHONE		PHONE	
FAX		FAX	
E-MAIL		E-MAIL	

DATE 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date (M) Time	Sample Time (M) Date	# Bottles	Pres.	QC	
21	GP-12 (15')	S	1015	7/19/13	2			HOLD
22	GP-12 (20')	S	1025	7/19/13	2			HOLD
23	GP-13 (10')	S	1045	7/19/13	2			HOLD
24	GP-13 (15')	S	1055	7/19/13	2			HOLD
25	GP-13 (20')	S	1105	7/19/13	2			HOLD
26	GP-14 (10')	S	1115	7/19/13	2			HOLD
27	GP-14 (15')	S	1125	7/19/13	2			HOLD
28	GP-14 (20')	S	1135	7/19/13	2			HOLD
29	GP-15 (10')	S	1145	7/19/13	2			HOLD
30	GP-15 (15')	S	1155	7/19/13	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 6-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dave Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1307524 7/30/13

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 4 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4068 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE: 7/19/13

TURNAROUND

Hold per Dana Harris email 7/31/13

Lab ID	Field ID	Matrix	Sample Time*	Sample Date	# Bottles	Pres.	QC	Oil + Grease	BTEX 8260	PCBs	TCLP Benzene	Oil & Grease	BTEX
31	GP-15 (20')	S	1200	7/19/13	2			HOLD					
32	GP-16 (10')	S	1215	7/19/13	2			HOLD				X	X
33	GP-16 (15')	S	1220	7/19/13	2			HOLD				X	X
34	GP-16 (20')	S	1270	7/19/13	2			HOLD				X	X
35	GP-9	W	1330	7/19/13	4			X	X				
36	GP-11	W	1400	7/19/13	4			X	X				
37	GP-14	W	1415	7/19/13	4			X	X				
38	GP-15	W	1425	7/19/13	4			X	X				
39	BW-19	NS	1730	7/19/13	2					X	X		
											(40)		

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
(41) TB	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitt	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

0110 9

1307521 7/13/13

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Thompson Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO *
7. Were airbills / shipping documents present and/or removable?	(DROP OFF)	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	(NO) *
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1	2	3					
Temperature (°C):	4.8	1.2	3.0					
No. of custody seals on cooler:	0 →							
DOT Survey/ Acceptance Information: External µR/hr reading:	N/A →							
Background µR/hr reading:	10							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / (NA) (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*please see page 2

If applicable, was the client contacted? YES / NO / (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 7/20/13

Form 201r24.xls (06/04/2012)

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

1307328 7/31/13

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Workorder No: 1307328

Project Manager: ARW Initials: US Date: 7/20/13

Additional Information:

(*6) Trip Blank not listed on COC. Arrived in cooler #1 added to W.O. as 1307328-41 (2 vials)

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? (YES) (See Table below) / NO

pH Excursion:

ALS Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1307328-35-4	GP-9	7	<2	H_2SO_4	1.0	50048	04G	US 7/20/13 0940
36-4	GP-11	4	↓	↓	↓	↓	↓	↓
37-4	GP-14	3	↓	↓	↓	↓	↓	↓
38-4	GP-15	4	↓	↓	↓	↓	↓	↓

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: 7/20/13

Form 201r24.xls (06/04/2012)

Page 2 of 2

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (10')	**Lab ID:**	1307521-1
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:15	**Percent Moisture:**	14.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		5.7	UG/KG	1	7/30/2013 17:30
TOLUENE	ND		5.7	UG/KG	1	7/30/2013 17:30
ETHYLBENZENE	ND		5.7	UG/KG	1	7/30/2013 17:30
M+P-XYLENE	ND		5.7	UG/KG	1	7/30/2013 17:30
O-XYLENE	ND		5.7	UG/KG	1	7/30/2013 17:30
Surr: DIBROMOFLUOROMETHANE	*104*		*61-134*	*%REC*	1	7/30/2013 17:30
Surr: TOLUENE-D8	*94*		*57-135*	*%REC*	1	7/30/2013 17:30
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	7/30/2013 17:30
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		120	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (15')	**Lab ID:**	1307521-2
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:20	**Percent Moisture:**	3.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		4.7	UG/KG	1	7/30/2013 17:53
TOLUENE	ND		4.7	UG/KG	1	7/30/2013 17:53
ETHYLBENZENE	ND		4.7	UG/KG	1	7/30/2013 17:53
M+P-XYLENE	ND		4.7	UG/KG	1	7/30/2013 17:53
O-XYLENE	ND		4.7	UG/KG	1	7/30/2013 17:53
Surr: DIBROMOFLUOROMETHANE	*101*		*61-134*	*%REC*	1	7/30/2013 17:53
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/30/2013 17:53
Surr: 4-BROMOFLUOROBENZENE	*99*		*52-151*	*%REC*	1	7/30/2013 17:53
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		100	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/30/2013 18:15
TOLUENE	ND		5.2	UG/KG	1	7/30/2013 18:15
ETHYLBENZENE	ND		5.2	UG/KG	1	7/30/2013 18:15
M+P-XYLENE	ND		5.2	UG/KG	1	7/30/2013 18:15
O-XYLENE	ND		5.2	UG/KG	1	7/30/2013 18:15
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/30/2013 18:15
Surr: TOLUENE-D8	*95*		*57-135*	*%REC*	1	7/30/2013 18:15
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/30/2013 18:15
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		110	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

Diesel Range Organics:

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **EX130731-6-1** Instrument ID **Balance** Method: **SW9071**

LCS Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2060	100	2060		100	80-120			20	

LCSD Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2040	100	2060		99	80-120	2060	1	20	

MB Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	100	100								

MS Sample ID: **1307521-2** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: **GP-16 (15')** Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2090	102	2110	100	99	80-120			20	

MSD Sample ID: **1307521-2** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: **GP-16 (15')** Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2090	102	2100	100	100	80-120	2090	0	20	

The following samples were analyzed in this batch: 1307521-1 1307521-2 1307521-3

Batch ID: **VL130730-2-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 16:19**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.6	5	40		109	73-126			30	
TOLUENE	40.1	5	40		100	71-127			30	
ETHYLBENZENE	39.2	5	40		98	74-127			30	
M+P-XYLENE	78.3	5	80		98	79-126			30	
O-XYLENE	39.9	5	40		100	77-125			30	
Surr: DIBROMOFLUOROMETHA	51.9		50		104	61-134				
Surr: TOLUENE-D8	48		50		96	57-135				
Surr: 4-BROMOFLUOROBENZE	51.4		50		103	52-151				

LCSD Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 16:43**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.2	5	40		108	73-126	43.6	1	30	
TOLUENE	40	5	40		100	71-127	40.1	0	30	
ETHYLBENZENE	39.1	5	40		98	74-127	39.2	0	30	
M+P-XYLENE	79.9	5	80		100	79-126	78.3	2	30	
O-XYLENE	40.3	5	40		101	77-125	39.9	1	30	
Surr: DIBROMOFLUOROMETHA	51.9		50		104	61-134		0		
Surr: TOLUENE-D8	48.5		50		97	57-135		1		
Surr: 4-BROMOFLUOROBENZE	52.1		50		104	52-151		1		

MB Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 17:06**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	50.9		50		102	61-134				
Surr: TOLUENE-D8	47.7		50		95	57-135				
Surr: 4-BROMOFLUOROBENZE	50.8		50		102	52-151				

QC BATCH REPORT

Batch ID: **VL130730-2-1** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307521-3** Units: **UG/KG** Analysis Date: **7/30/2013 18:38**

Client ID: **GP-16 (20')** Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.4	5.12	40.9	5.2	101	73-126			30	
TOLUENE	37.4	5.12	40.9	5.2	91	71-127			30	
ETHYLBENZENE	36.7	5.12	40.9	5.2	90	74-127			30	
M+P-XYLENE	73.4	5.12	81.9	5.2	90	79-126			30	
O-XYLENE	37.4	5.12	40.9	5.2	91	77-125			30	
Surr: DIBROMOFLUOROMETHA	53.3		51.2		104	61-134				
Surr: TOLUENE-D8	48.4		51.2		95	57-135				
Surr: 4-BROMOFLUOROBENZE	51.7		51.2		101	52-151				

MSD Sample ID: **1307521-3** Units: **UG/KG** Analysis Date: **7/30/2013 19:02**

Client ID: **GP-16 (20')** Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.7	5.15	41.2	5.2	101	73-126	41.4	1	30	
TOLUENE	37.4	5.15	41.2	5.2	91	71-127	37.4	0	30	
ETHYLBENZENE	35.5	5.15	41.2	5.2	86	74-127	36.7	3	30	
M+P-XYLENE	72.2	5.15	82.3	5.2	88	79-126	73.4	2	30	
O-XYLENE	36	5.15	41.2	5.2	88	77-125	37.4	4	30	
Surr: DIBROMOFLUOROMETHA	52.4		51.5		102	61-134		2		
Surr: TOLUENE-D8	48.9		51.5		95	57-135		1		
Surr: 4-BROMOFLUOROBENZE	51.1		51.5		99	52-151		1		

The following samples were analyzed in this batch: 1307521-1 1307521-2 1307521-3

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	GRO (TVPH) mg/Kg
A8012-01	GP-1	03/26/13	03/27/13	< 0.5
A8012-02	S-8	03/26/13	03/27/13	0.95
A8012-04	GP-2	03/26/13	03/27/13	< 0.5
A8012-05	GP-3	03/26/13	03/27/13	< 0.5
A8012-06	GP-4	03/26/13	03/27/13	< 0.5
A8012-07	GP-5	03/26/13	03/27/13	< 0.5
A8012-08	GP-6	03/26/13	03/27/13	< 0.5
A8012-09	GP-7	03/26/13	03/27/13	< 0.5

GRO (TVPH) Method: EPA-8260B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	DRO (TEPH) mg/Kg
A8012-01	GP-1	03/26/13	03/28/13	< 10.0
A8012-02	S-8	03/26/13	03/28/13	65.5
A8012-04	GP-2	03/26/13	03/28/13	< 10.0
A8012-05	GP-3	03/26/13	03/28/13	< 10.0
A8012-06	GP-4	03/26/13	03/28/13	< 10.0
A8012-07	GP-5	03/26/13	03/28/13	< 10.0
A8012-08	GP-6	03/26/13	03/28/13	< 10.0
A8012-09	GP-7	03/26/13	03/28/13	< 10.0

DRO (TEPH) Method: EPA-8015B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	HEM mg/Kg
A8012-01	GP-1	03/26/13	04/03/13	< 50
A8012-02	S-8	03/26/13	04/03/13	316
A8012-04	GP-2	03/26/13	04/03/13	< 50
A8012-05	GP-3	03/26/13	04/03/13	< 50
A8012-06	GP-4	03/26/13	04/03/13	< 50
A8012-07	GP-5	03/26/13	04/03/13	< 50
A8012-08	GP-6	03/26/13	04/03/13	< 50
A8012-09	GP-7	03/26/13	04/03/13	< 50

HEM Method: EPA-9071B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-1
Laboratory ID: A8012-01

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	108	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: S-8
Laboratory ID: A8012-02

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	112	81-128
Bromofluorobenzene	88	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-1
Laboratory ID: A8012-03

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	100	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-2

Laboratory ID: A8012-04

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	107	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-3
Laboratory ID: A8012-05

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	104	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-4
Laboratory ID: A8012-06

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
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CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-5
Laboratory ID: A8012-07

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	109	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-6

Laboratory ID: A8012-08

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	105	81-128
Bromofluorobenzene	95	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-7
Laboratory ID: A8012-09

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	108	81-128
Bromofluorobenzene	96	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-3
Laboratory ID: A8012-10

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-4
Laboratory ID: A8012-11

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	100	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	92	70-113

The results contained in this report relate only to those items tested.

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1012 Centre Avenue
Fort Collins, Colorado 80526
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CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-5
Laboratory ID: A8012-13

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-6
Laboratory ID: A8012-14

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

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CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-7
Laboratory ID: A8012-15

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
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74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	102	68-120
Toluene-d8	97	81-128
Bromofluorobenzene	92	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.
1012 CENTRE AVENUE
FORT COLLINS, CO 80526
Phone: (970)490-1414 Fax: (970)472-5488
www.techlabusa.com info@techlabusa.com

W.O. NUMBER A8012

CHAIN-OF-CUSTODY REPORT

COMPANY NAME CTL Thompson Fort Collins
PROJECT MANAGER Dina Harris
PROJECT NUMBER FC65859.001
PROJECT LOCATION OR NAME 4000 County Line Road
SAMPLER'S SIGNATURE

	SAMPLE ID	DATE/TIME SAMPLED	SAMPLE MATRIX: SOIL (S) AIR (A) AQUEOUS (W) OTHER (O)	NUMBER OF CONTAINERS	BTEX / MTBE / TVPH	TEPH (DRO)	OIL & GREASE (HEM)	VOC 624 / 8260 (TOTAL) TCLP	SVOC 625 / 8270 / PAH (TOTAL / TCLP)	pH / TSS / TDS	RCRA 8 METALS (TOTAL / TCLP / DISSOLVED)	React. / Ignite. / Corr. / Paint Filt.	BTEX/TVPH Emissions Vapor	BTEX Soil Vapor	TO-14 / TO-15 / TVPH Vapor	NITRATE / NITRITE / AMMONIA	BOD / COD	PCBs					HOLD AFTER ANALYSIS	HOLD, DON'T ANALYZE
01	GP-1	3/26/13 0855	S	1	X	X	X	X															
02	GP-1 SB	3/26/13 0850	S	1	X	X	X	X															
03	GP-1	3/26/13 0850	W	2				X															
04	GP-2	3/26/13 0920	S	1	X	X	X	X															
05	GP-3	3/26/13 1015	S	1	X	X	X	X															
06	GP-4	3/26/13 1045	S	1	X	X	X	X															
07	GP-5	3/26/13 1130	S	1	X	X	X	X															
08	GP-6	3/26/13 1215	S	1	X	X	X	X															
09	GP-7	3/26/13 1300	S	1	X	X	X	X															
10	GP-3	3/26/13 1345	W	2				X															
11	GP-4	3/26/13 1405	W	2				X															
12	~~GP-2~~	~~3/26/13 1425~~	W	~~2~~				X															

PAGE 1 OF 2

TURNAROUND TIME
- [X] Normal (≤10 Working Days)
- [ ] 3 Day (1.5 x Normal Rates)
- [ ] Next Day (2 x Normal Rates)
- [ ] Same Day (4 x Normal Rates)

INTACT? — YES — NO

COMMENTS:

RELINQUISHED BY:
COMPANY: CTL Thompson
RELINQUISHED BY:
COMPANY:

LOGGED IN BY: SW

Sample Preservative: [X] ≤ 6° C [ ] None [ ] Other [ ] Acid [ ] Filtered

DATE: 3.27-13
TIME: 8:30

RELINQUISHED BY: VPM
COMPANY: TLT
DATE:
TIME:
RELINQUISHED BY:
COMPANY:

TECHNOLOGY LABORATORY, INC.
1012 CENTRE AVENUE
FORT COLLINS, CO 80526
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www.techlabusa.com info@techlabusa.com

W.O. NUMBER A8012

CHAIN-OF-CUSTODY REPORT

COMPANY NAME: CTL Thompson IFC
PROJECT MANAGER: Dana Harris
PROJECT NUMBER: FC05549.001
PROJECT LOCATION OR NAME: Yuma County Line Road
SAMPLER'S SIGNATURE:

	SAMPLE ID	DATE/TIME SAMPLED	SAMPLE MATRIX: SOIL (S) AIR (A) AQUEOUS (W) OTHER (O)	NUMBER OF CONTAINERS	BTEX / MTBE / TVPH	TEPH (DRO)	OIL & GREASE	VOC 624 / 8260 (TOTAL / TCLP)	SVOC 625 / 8270 / PAH (TOTAL / TCLP)	pH / TSS / TDS	RCRA 8 METALS (TOTAL / TCLP / DISSOLVED)	React. / Ignite. / Corr. / Paint Filt.	BTEX/TVPH Emissions Vapor	BTEX Soil Vapor	TO-14 / TO-15 / TVPH Vapor	NITRATE / NITRITE / AMMONIA	BOD / COD	PCBs						HOLD AFTER ANALYSIS	HOLD, DON'T ANALYZE
	GP-5	3/26/13 1445	W	2				X																	
	GP-6	3/26/13 1500	W	2				X																	
	GP-7	3/26/13 1520	W	2				X																	

ANALYSIS REQUESTED | OTHER

PAGE 2 OF 2

TURNAROUND TIME

- [x] Normal (≤10 Working Days)
- [ ] 3 Day (1.5 x Normal Rates)
- [ ] Next Day (2 x Normal Rates)
- [ ] Same Day (4 x Normal Rates)

NYMEX PERMIT? YES X NO

COMMENTS:

LOGGED IN BY: SW

Sample Preservative: [x] ≤ 6° C [ ] None [ ] Other [ ] Acid [ ] Filtered

RELINQUISHED BY:		DATE: 3-27-13	RELINQUISHED BY:
COMPANY:	CTL Thompson	TIME: 8:30	COMPANY: IFC
RELINQUISHED BY:		DATE:	RELINQUISHED BY:
COMPANY:		TIME:	COMPANY:

APPENDIX A

PREVIOUS ENVIRONMENTAL SITE ASSESSMENTS

August 9, 2021

Diverge Homes
603 South Public Road Unit 765
Lafayette, Colorado 80026

Attention: Mr. Nick Jacobs

Subject: Limited Phase II Environmental Site Assessment
4060 County Line Road
Erie, Colorado
Project No. FC10041-205-L1

This letter was prepared by CTL | Thompson, Inc. (CTL) for Diverge Homes and presents the results of the Limited Phase II Environmental Site Assessment (ESA) for 4060 County Line Road in Erie, Colorado. The purpose of this investigation was to gather near-surface soil sampling data for the official VCP application, which CTL is in the process of completing.

SITE DESCRIPTION

The Site consists of the vacant land which previously was improved with a building occupied by a precast concrete construction business. The Site is made up of two parcels in Weld County. The Weld County Assessor website lists the size of this parcel as approximately three (3) acres. Figure 1 (Topographic Map) presents the location of the Site and Figure 2 (Site Plan) presents the approximate locations of the soil samples, as well as a summary of laboratory analytical results.

FIELD INVESTIGATION

Following utility clearances, CTL visited the Site on July 21, 2021 and collected shallow soil samples by boring with a hand auger. Soil samples were collected to an approximate depth of six (6) inches to three (3) feet at fifteen locations: three (3) in each of five (5) sections of the Site. In each of the five sections, divided roughly east to west, we collected three aliquots or subsamples, and then composited the three aliquots into one composite sample. These locations are presented in Figure 2.

Environmental protocol was used by CTL during augering and sampling of the soil. Disposable nitrile gloves were used by CTL to obtain subsurface soils. Sampling equipment was decontaminated with an Alconox® wash, followed by rinse, and deionization rinse between sample locations.

The portions of the samples from the hand auger borings that were composited (metals) were collected by combining the boring spoils in a stainless-steel bowl. The spoils from each of five sections were then mixed and divided into two sample jars.

The soil samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs, general indicators of coal ash and other hydrocarbons), and Resource Conservation and Recovery Act (RCRA) 8 Metals via EPA Method 610/7020. Two of the five samples were also analyzed for Toxicity Characteristic Leaching Procedure (TCLP) Lead. TCLP Lead is a measure of the portion of total lead that is likely to leach out in a landfill setting and is an important metric for landfills and other parties in terms of characterizing the soil as hazardous or non-hazardous waste. The samples were placed in laboratory provided glassware and transported on ice to Origins Laboratory in Denver, Colorado.

LABORATORY ANALYTICAL RESULTS

Table I presents a summary of the soil sample results. A complete copy of the laboratory results is presented in Attachment A.

TABLE I
SOIL ANALYTICAL RESULTS – RCRA 8 METALS, TCLP LEAD, AND PAHS

	Analyte	S-1	S-2	S-3	S-4	S-5	EPA RSL (Residential Soils)
RCRA 8 Metals	Arsenic	**4.12**	**5.38**	**5.17**	**4.93**	**13.0**	0.68
	Barium	67.2	65.5	100	75.5	138	15,000
	Cadmium	ND	ND	0.301	ND	0.130	71
	Chromium	15.4	14.3	13.8	17.0	15.4	120,000
	Lead	10.3	6.78	16.6	9.50	506	400
	Selenium	ND	ND	ND	ND	ND	390
	Silver	ND	ND	ND	ND	ND	390
	Mercury	0.0462	0.0219	0.0261	0.0282	0.0122	11
	TCLP	NA	NA	ND	NA	ND	
PAHs	1-Methylnaphthalene	ND	ND	ND	ND	ND	18
	2-Methylnaphthalene	ND	0.00259	ND	0.00204	ND	240
	Acenaphthene	ND	ND	ND	ND	ND	3,600
	Acenaphthylene	ND	ND	ND	ND	0.00247	NS
	Anthracene	ND	0.00481	ND	0.00204	0.00283	18,000
	Benzo(a)anthracene	ND	ND	ND	0.00238	00.954	1.1
	Benzo(a)pyrene	ND	ND	ND	0.00374	0.0106	0.11
	Benzo(b)fluoranthene	ND	ND	ND	0.00510	0.0212	1.1
	Benzo(ghi)perylene	ND	ND	ND	00.00680	0.00707	NS
	Benzo(k)fluoranthene	ND	ND	ND	ND	0.00742	11
	Chrysene	0.0380	ND	ND	0.00374	0.0141	110
	Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	0.11
	Fluoranthene	0.0531	0.00222	0.0106	0.00612	0.0138	2,400
	Fluorene	ND	ND	ND	ND	ND	2,400
	Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.00707	1.1

Analyte		S-1	S-2	S-3	S-4	S-5	EPA RSL (Residential Soils)
	Naphthalene	ND	ND	ND	ND	ND	2.0
	Phenanthrene	ND	0.0107	ND	0.00578	0.00460	NS
	Pyrene	0.0455	0.00296	0.00887	ND	0.0127	1,800

Note: All concentrations in milligrams per kilogram (mg/kg); Cyanide is in micrograms per kilogram (µg/kg)
EPA RSL = United States Environmental Protection Agency Regional Screening Level (Industrial) Summary Table (TR=1E-06, THQ=1.0) November 2020
ND = Not Detected
NS = No Standard
RED = Exceeds EPA RSL for Residential Soils

TCLP Lead were not detected in the two samples collected. Seven of the eight RCRA Metals were not detected in concentrations above the EPA Regional Screening Levels (RSLs) for residential soil.

PAHs were not detected in concentrations above EPA Regional Screening Levels for residential soils.

Arsenic was detected in concentrations which exceed the EPA RSL for residential soil; however, it should be noted that arsenic is naturally occurring in some geologic environments in Colorado. The Colorado Department of Public Health and Environment (CDPHE) released a soil guidance document in June 2011 (reviewed/revised July 2014) related to evaluating arsenic concentrations in soil, specifically regarding screening data collected from sites where historical use does not indicate the potential for arsenic contamination. More than 2,700 soil samples were collected from 44 counties in Colorado and were separated into three different land use categories. The average concentration of the land use categories was 11 mg/kg and the average concentration for the urban mixed-use category was 19 mg/kg. According to the CDPHE document, if arsenic concentrations are lower than 11 mg/kg, and releases of arsenic could not have occurred at the site, than the division would require no further action to address arsenic in soil. Based on the laboratory results, as well as the CDPHE guidance document, we do not believe that arsenic concentrations in the soils represent a concern.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the limited sampling and evaluation at the Site, the following can be concluded.

- PAHs were not detected in concentrations above EPA Regional Screening Levels for residential soils.
- TCLP Lead was not detected in the shallow soils within the locations sampled; this information may be helpful for disposal purposes, if needed.

- Arsenic was detected above the EPA RSL for residential soil; however, these concentrations did not exceed CDPHE guidance document standards/recommendations. Other RCRA metals were not identified in concentrations that exceeded the EPA RSLs for residential soil where a clear standard is provided. We do not believe that these analytes represent a concern for the site soils.

- Based on the laboratory results, as well as our field observations, the soils in question appear suitable for disposal in a Subtitle D landfill (solid waste), such as the Denver Arapahoe Disposal Site (DADS). The laboratory data can be provided to the landfill in order to facilitate the creation of a waste profile.

LIMITATIONS

This letter was prepared for the use of Diverge Homes in evaluating the shallow soils 4060 County Line Road. Our sampling and analytical plan was designed using previously obtained environmental background information and our judgment for the performance of a limited subsurface evaluation. The accuracy and reliability of environmental studies reflect the number and type of samples taken and extent of the analyses conducted by CTL. This investigation does not result in any guarantee that the site is free and clear of hazardous materials other than those that may be indicated by CTL in this letter.

If you have any questions or need additional information or assistance with future evaluation of the site, please feel free to call.

Sincerely,

CTL | THOMPSON, INC.

Christine Whitacre
Environmental Technician
CWhitacre@CTLThompson.com

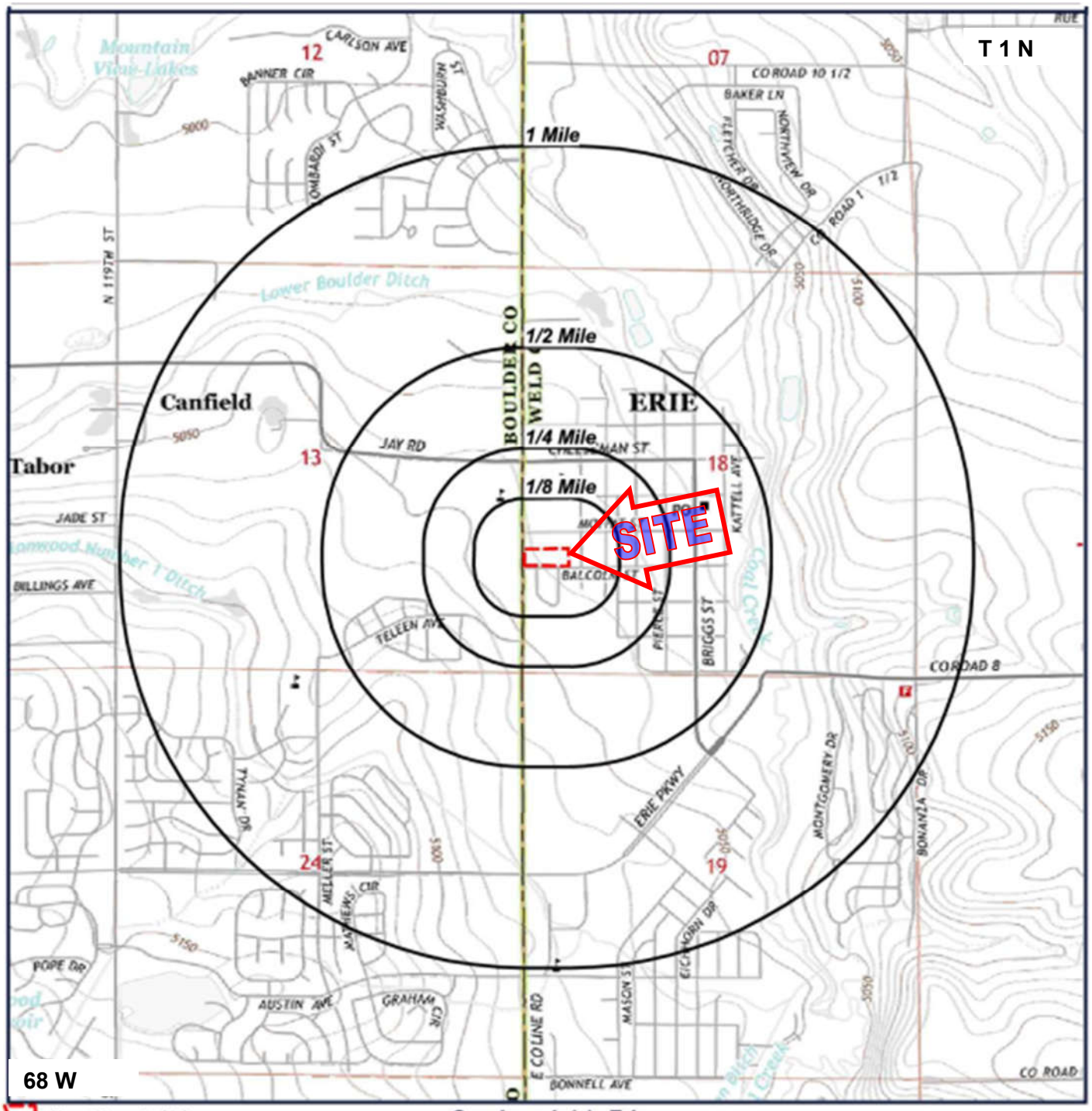
Reviewed by:

Matthew L. Wardlow, P.E.
Environmental Department Manager
mwardlow@CTLThompson.com

CMW:MLW/nn

Attachments: Figure 1 – Topographic Area Map
Figure 2 – Approximate Sample Locations and Laboratory Results Summary
Attachment A – Soil Sample Laboratory Data

Via e-mail: nick.jacobs@divergehomes.com



DIVERGE HOMES
4060 COUNTY LINE ROAD
LIMITED PHASE II ESA
CTL PROJECT NO. FC10041.000-200-R1

TOPOGRAPHIC AREA MAP
FIG. 1

DIVERGE HOMES
4060 COUNTY LINE ROAD
CTL PROJECT NO. FC10041.000-205-L1

SITE MAP
FIGURE 2

ATTACHMENT A

SOIL SAMPLE LABORATORY DATA

ORIGINS LABORATORY, INC

August 03, 2021

CTL Thompson, Inc.

Chrissy Whitacre

1971 West 12th Avenue

Denver CO 80204

Project Name - 4060 County Line Road **Project Number - FC10041**

Attached are your analytical results for 4060 County Line Road received by Origins Laboratory, Inc. July 21, 2021. This project is associated with Origins project number Y107422-01.

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, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	Y107422-01	Soil	July 21, 2021 8:00	07/21/2021 14:30
S-2	Y107422-02	Soil	July 21, 2021 9:00	07/21/2021 14:30
S-3	Y107422-03	Soil	July 21, 2021 10:00	07/21/2021 14:30
S-4	Y107422-04	Soil	July 21, 2021 11:00	07/21/2021 14:30
S-5	Y107422-05	Soil	July 21, 2021 12:00	07/21/2021 14:30

TCLP Pb added to sample S-5 per the phone call from John on 07/28/2021. JEP

Origins Laboratory, Inc.

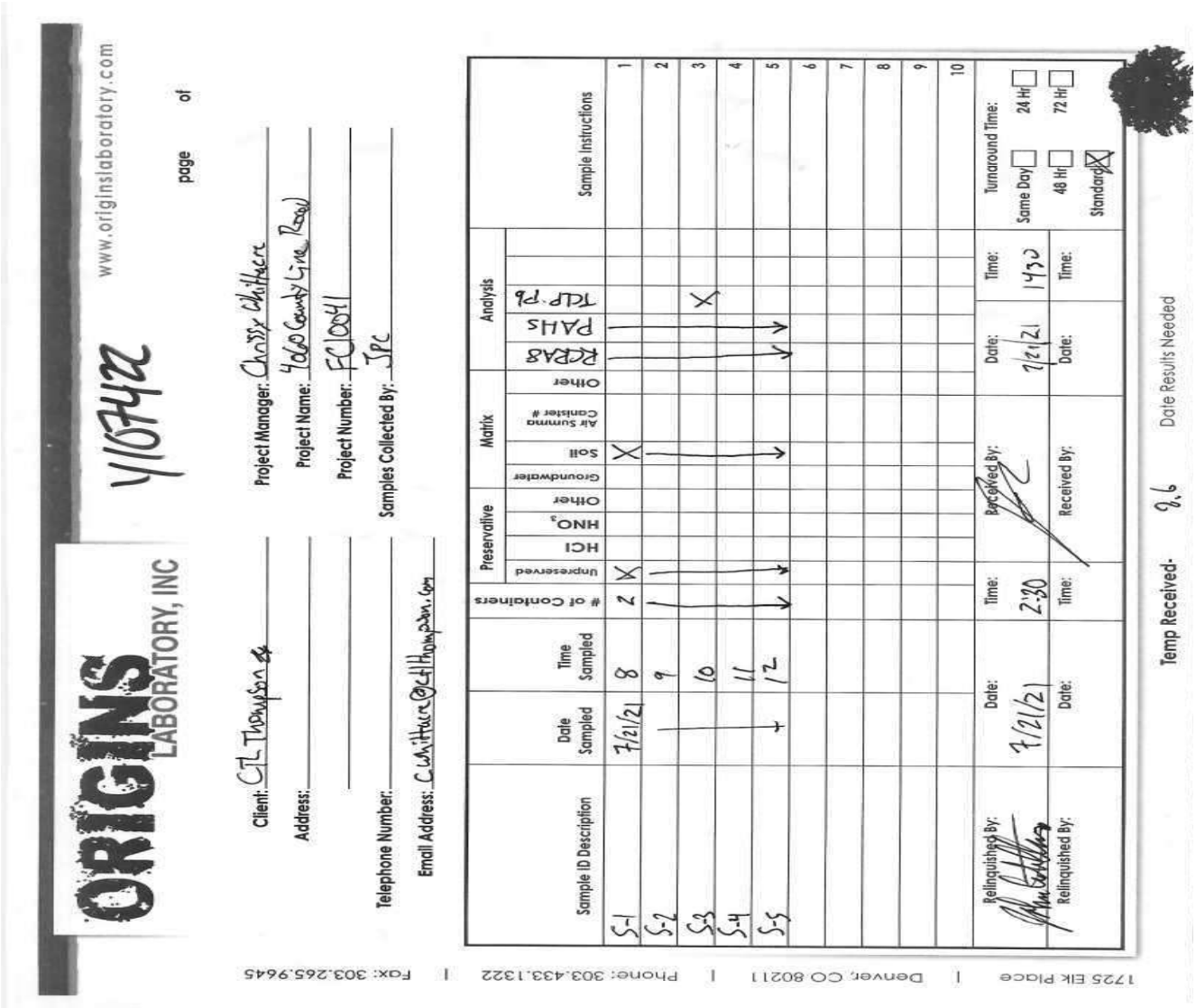
Jen Pellegrini For Noelle Doyle Mathis, President

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.

ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road



Origins Laboratory, Inc.

Jen Pellegrini

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.

Jen Pellegrini For Noelle Doyle Mathis, President

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y107422
Client: CTL
Client Project ID: 4060 County Line Rd.
Checklist Completed by: JG
Date/time completed: 7/21/21
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #:
Matrix(s) Received: (Check all that apply): X Soil/Solid ____Water ____Other:____
Cooler Number/Temperature: 1 / 3.6 °C ____/____°C ____/____°C ____/____°C (Describe)
Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?		✓		Same Day
Is there ice present (document if blue ice is used)	—			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
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) 7/22/21 Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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.

Jen Pellegrini For Noelle Doyle Mathis, President

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-1
7/21/2021 8:00:00AM

GEL Laboratories, LLC
Y107422-01 (Soil)

PAH by 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.0759	mg/kg dry	20	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	ND	0.0759	"	"	"	LXA1	"	"	U
Acenaphthene	ND	0.0759	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.0759	"	"	"	LXA1	"	"	U
Anthracene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(a)anthracene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(a)pyrene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(b)fluoranthene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(ghi)perylene	ND	0.0759	"	"	"	LXA1	"	"	U
Benzo(k)fluoranthene	ND	0.0759	"	"	"	LXA1	"	"	U
Chrysene	**0.0380**	0.0759	"	"	"	LXA1	"	"	J
Dibenzo(a,h)anthracene	ND	0.0759	"	"	"	LXA1	"	"	U
Fluoranthene	**0.0531**	0.0759	"	"	"	LXA1	"	"	J
Fluorene	ND	0.0759	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.0759	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.0759	"	"	"	LXA1	"	"	U
Phenanthrene	ND	0.0759	"	"	"	LXA1	"	"	U
Pyrene	**0.0455**	0.0759	"	"	"	LXA1	"	"	J
Surrogate: 5-alpha-Androstane	*288 %*	*25-121*			"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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.

ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-1
7/21/2021 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
GEL Laboratories, LLC									
Y107422-01 (Soil)									
Total Metals by 6010C									
Arsenic	**4.12**	3.31	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**67.2**	0.552	"	"	"	TXT1	"	"	
Cadmium	ND	0.552	"	"	"	TXT1	"	"	U
Chromium	**15.4**	1.10	"	"	"	TXT1	"	"	
Lead	**10.3**	2.21	"	"	"	TXT1	"	"	
Selenium	ND	33.1	"	10	"	TXT1	"	"	U
Silver	ND	0.552	"	1	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0462**	0.0277	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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.

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-2
7/21/2021 9:00:00AM

GEL Laboratories, LLC
Y107422-02 (Soil)

PAH by 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.00370	mg/kg dry	1	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	**0.00259**	0.00370	"	"	"	LXA1	"	"	J
Acenaphthene	ND	0.00370	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.00370	"	"	"	LXA1	"	"	U
Anthracene	**0.00481**	0.00370	"	"	"	LXA1	"	"	
Benzo(a)anthracene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(a)pyrene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(b)fluoranthene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(ghi)perylene	ND	0.00370	"	"	"	LXA1	"	"	U
Benzo(k)fluoranthene	ND	0.00370	"	"	"	LXA1	"	"	U
Chrysene	ND	0.00370	"	"	"	LXA1	"	"	U
Dibenzo(a,h)anthracene	ND	0.00370	"	"	"	LXA1	"	"	U
Fluoranthene	**0.00222**	0.00370	"	"	"	LXA1	"	"	J
Fluorene	ND	0.00370	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00370	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.00370	"	"	"	LXA1	"	"	U
Phenanthrene	**0.0107**	0.00370	"	"	"	LXA1	"	"	
Pyrene	**0.00296**	0.00370	"	"	"	LXA1	"	"	J
Surrogate: 5-alpha-Androstane	*81 %*	*25-121*			"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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.

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-2
7/21/2021 9:00:00AM

GEL Laboratories, LLC
Y107422-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Total Metals by 6010C									
Arsenic	**5.38**	3.05	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**65.5**	0.509	"	"	"	TXT1	"	"	
Cadmium	ND	0.509	"	"	"	TXT1	"	"	U
Chromium	**14.3**	1.02	"	"	"	TXT1	"	"	
Lead	**6.78**	2.04	"	"	"	TXT1	"	"	
Selenium	ND	305	"	100	"	TXT1	"	"	U
Silver	ND	0.509	"	1	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0219**	0.0233	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	J

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

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7/21/2021 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

GEL Laboratories, LLC
Y107422-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0177	mg/kg dry	5	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	ND	0.0177	"	"	"	LXA1	"	"	U
Acenaphthene	ND	0.0177	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.0177	"	"	"	LXA1	"	"	U
Anthracene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(a)anthracene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(a)pyrene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(b)fluoranthene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(ghi)perylene	ND	0.0177	"	"	"	LXA1	"	"	U
Benzo(k)fluoranthene	ND	0.0177	"	"	"	LXA1	"	"	U
Chrysene	ND	0.0177	"	"	"	LXA1	"	"	U
Dibenzo(a,h)anthracene	ND	0.0177	"	"	"	LXA1	"	"	U
Fluoranthene	**0.0106**	0.0177	"	"	"	LXA1	"	"	J
Fluorene	ND	0.0177	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.0177	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.0177	"	"	"	LXA1	"	"	U
Phenanthrene	ND	0.0177	"	"	"	LXA1	"	"	U
Pyrene	**0.00887**	0.0177	"	"	"	LXA1	"	"	J

Surrogate: 5-alpha-Androstane *103 %* *25-121* " " "

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

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7/21/2021 10:00:00AM

GEL Laboratories, LLC
Y107422-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
TCLP Metals by 1311/6010C									
Lead	ND	0.200	mg/L	1	2154193	LS	07/23/2021	07/26/2021	U
Total Metals by 6010C									
Arsenic	**5.17**	3.10	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**100**	0.517	"	"	"	TXT1	"	"	
Cadmium	**0.301**	0.517	"	"	"	TXT1	"	"	J
Chromium	**13.8**	1.03	"	"	"	TXT1	"	"	
Lead	**16.6**	2.07	"	"	"	TXT1	"	"	
Selenium	ND	3.10	"	"	"	TXT1	"	"	U
Silver	ND	0.517	"	"	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0261**	0.0250	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	

Origins Laboratory, Inc.

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Project Number: FC10041
Project: 4060 County Line Road

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7/21/2021 11:00:00AM

GEL Laboratories, LLC
Y107422-04 (Soil)

PAH by 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND	0.00340	mg/kg dry	1	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	**0.00204**	0.00340	"	"	"	LXA1	"	"	J
Acenaphthene	ND	0.00340	"	"	"	LXA1	"	"	U
Acenaphthylene	ND	0.00340	"	"	"	LXA1	"	"	U
Anthracene	**0.00204**	0.00340	"	"	"	LXA1	"	"	J
Benzo(a)anthracene	**0.00238**	0.00340	"	"	"	LXA1	"	"	J
Benzo(a)pyrene	**0.00374**	0.00340	"	"	"	LXA1	"	"	
Benzo(b)fluoranthene	**0.00510**	0.00340	"	"	"	LXA1	"	"	
Benzo(ghi)perylene	**0.00680**	0.00340	"	"	"	LXA1	"	"	
Benzo(k)fluoranthene	ND	0.00340	"	"	"	LXA1	"	"	U
Chrysene	**0.00374**	0.00340	"	"	"	LXA1	"	"	
Dibenzo(a,h)anthracene	ND	0.00340	"	"	"	LXA1	"	"	U
Fluoranthene	**0.00612**	0.00340	"	"	"	LXA1	"	"	
Fluorene	ND	0.00340	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00340	"	"	"	LXA1	"	"	U
Naphthalene	ND	0.00340	"	"	"	LXA1	"	"	U
Phenanthrene	**0.00578**	0.00340	"	"	"	LXA1	"	"	
Pyrene	ND	0.00340	"	"	"	LXA1	"	"	U
Surrogate: 5-alpha-Androstane	*102 %*	*25-121*			"		"	"	

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

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7/21/2021 11:00:00AM

GEL Laboratories, LLC
Y107422-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Total Metals by 6010C									
Arsenic	**4.93**	3.06	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**75.5**	0.510	"	"	"	TXT1	"	"	
Cadmium	ND	2.55	"	5	"	TXT1	"	"	U
Chromium	**17.0**	1.02	"	1	"	TXT1	"	"	
Lead	**9.50**	2.04	"	"	"	TXT1	"	"	
Selenium	ND	306	"	100	"	TXT1	"	"	U
Silver	ND	2.55	"	5	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0282**	0.0241	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

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7/21/2021 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

GEL Laboratories, LLC

Y107422-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00353	mg/kg dry	1	2154345	LXA1	07/26/2021	07/27/2021	U
2-Methylnaphthalene	ND	0.00353	"	"	"	LXA1	"	"	U
Acenaphthene	ND	0.00353	"	"	"	LXA1	"	"	U
Acenaphthylene	**0.00247**	0.00353	"	"	"	LXA1	"	"	J
Anthracene	**0.00283**	0.00353	"	"	"	LXA1	"	"	J
Benzo(a)anthracene	**0.00954**	0.00353	"	"	"	LXA1	"	"	
Benzo(a)pyrene	**0.0106**	0.00353	"	"	"	LXA1	"	"	
Benzo(b)fluoranthene	**0.0212**	0.00353	"	"	"	LXA1	"	"	
Benzo(ghi)perylene	**0.00707**	0.00353	"	"	"	LXA1	"	"	
Benzo(k)fluoranthene	**0.00742**	0.00353	"	"	"	LXA1	"	"	
Chrysene	**0.0141**	0.00353	"	"	"	LXA1	"	"	
Dibenzo(a,h)anthracene	ND	0.00353	"	"	"	LXA1	"	"	U
Fluoranthene	**0.0138**	0.00353	"	"	"	LXA1	"	"	
Fluorene	ND	0.00353	"	"	"	LXA1	"	"	U
Indeno(1,2,3-cd)pyrene	**0.00707**	0.00353	"	"	"	LXA1	"	"	
Naphthalene	ND	0.00353	"	"	"	LXA1	"	"	U
Phenanthrene	**0.00460**	0.00353	"	"	"	LXA1	"	"	
Pyrene	**0.0127**	0.00353	"	"	"	LXA1	"	"	
Surrogate: 5-alpha-Androstane	*111 %*	*25-121*			"		"	"	

TCLP Metals by 1311/6010C

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

S-5
7/21/2021 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
GEL Laboratories, LLC									
Y107422-05 (Soil)									
TCLP Metals by 1311/6010C									
Lead	ND	0.200	mg/L	1	2156748	LS	07/30/2021	08/02/2021	U
Total Metals by 6010C									
Arsenic	**13.0**	3.23	mg/kg dry	1	2153704	TXT1	07/22/2021	07/23/2021	
Barium	**138**	0.538	"	"	"	TXT1	"	"	
Cadmium	**0.130**	0.538	"	"	"	TXT1	"	"	J
Chromium	**15.4**	1.08	"	"	"	TXT1	"	"	
Lead	**506**	2.15	"	"	"	TXT1	"	"	
Selenium	ND	64.6	"	20	"	TXT1	"	"	U
Silver	ND	5.38	"	10	"	TXT1	"	"	U
Total Metals by 7471A									
Mercury	**0.0122**	0.0217	mg/kg dry	1	2154000	MTM1	07/23/2021	07/26/2021	J

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Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

TCLP Metals by 1311/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154193 - SW846 3010A										
TB (1204869652-BLK)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	ND	0.200	mg/L				-			U
MS (1204869653 S)		**Source: Y107422-03**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	4.68	0.200	mg/L	5.00	<0.0330	93.5	75-125			
BLANK (1204870702-BLK)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	ND	0.200	mg/L				-			U
LCS (1204870703-BKS)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	4.91	0.200	mg/L	5.00		98.2	80-120			
DUP (1204870704 D)		**Source: Y107422-03**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Lead	ND	0.200	mg/L		<0.0330		0-20	90	20	U
Batch 2156748 - SW846 3010A										
TB (1204874420-BLK)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L				-			U
MS (1204874421 S)		**Source: Y107422-05**			Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	4.71	0.200	mg/L	5.00	<0.0330	93.8	75-125			
TB (1204875440-BLK)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L				-			U
BLANK (1204875846-BLK)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L				-			U

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Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

TCLP Metals by 1311/6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2156748 - SW846 3010A										
LCS (1204875847-BKS)					Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	4.93	0.200	mg/L	5.00		98.6	80-120			
DUP (1204875848 D)		**Source: Y107422-05**			Prepared: 07/30/2021 Analyzed: 08/02/2021					
Lead	ND	0.200	mg/L		<0.0330		0-20	6.17	20	U

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Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
BLANK (1204870973-BLK)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Dibenzo(a,h)anthracene	ND	0.00332	mg/kg				-			U
Benzo(ghi)perylene	ND	0.00332	"				-			U
Pyrene	ND	0.00332	"				-			U
Phenanthrene	ND	0.00332	"				-			U
Naphthalene	ND	0.00332	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"				-			U
Fluoranthene	ND	0.00332	"				-			U
Chrysene	ND	0.00332	"				-			U
Benzo(k)fluoranthene	ND	0.00332	"				-			U
Fluorene	ND	0.00332	"				-			U
Benzo(b)fluoranthene	ND	0.00332	"				-			U
2-Methylnaphthalene	ND	0.00332	"				-			U
1-Methylnaphthalene	ND	0.00332	"				-			U
Acenaphthene	ND	0.00332	"				-			U
Acenaphthylene	ND	0.00332	"				-			U
Anthracene	ND	0.00332	"				-			U
Benzo(a)anthracene	ND	0.00332	"				-			U
Benzo(a)pyrene	ND	0.00332	"				-			U
Surrogate: 5-alpha-Androstane	*0.167*		"	*0.166*		*101*	*25-121*			
LCS (1204870974-BKS)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Naphthalene	0.200	0.00329	mg/kg	0.329		61	52-106			
Phenanthrene	0.211	0.00329	"	0.329		64	53-106			
Benzo(k)fluoranthene	0.199	0.00329	"	0.329		60	39-119			
Fluorene	0.218	0.00329	"	0.329		66	42-113			
Fluoranthene	0.218	0.00329	"	0.329		66	43-116			
Dibenzo(a,h)anthracene	0.224	0.00329	"	0.329		68	40-137			

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Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
LCS (1204870974-BKS)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Chrysene	0.198	0.00329	mg/kg	0.329		60	53-108			
Indeno(1,2,3-cd)pyrene	0.233	0.00329	"	0.329		71	40-132			
Benzo(ghi)perylene	0.225	0.00329	"	0.329		68	35-121			
Benzo(b)fluoranthene	0.204	0.00329	"	0.329		62	42-119			
Benzo(a)anthracene	0.178	0.00329	"	0.329		54	51-118			
Acenaphthene	0.206	0.00329	"	0.329		63	48-107			
2-Methylnaphthalene	0.206	0.00329	"	0.329		63	50-109			
1-Methylnaphthalene	0.198	0.00329	"	0.329		60	50-109			
Pyrene	0.183	0.00329	"	0.329		56	42-114			
Benzo(a)pyrene	0.222	0.00329	"	0.329		68	42-123			
Acenaphthylene	0.220	0.00329	"	0.329		67	42-114			
Anthracene	0.221	0.00329	"	0.329		67	49-113			
Surrogate: 5-alpha-Androstane	*0.183*		*"*	*0.164*		*112*	*25-121*			
LCSD (1204870975-BKSD)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Fluorene	0.236	0.00333	mg/kg	0.333		71	42-113	8	30	
Benzo(b)fluoranthene	0.226	0.00333	"	0.333		68	42-119	10	30	
Pyrene	0.200	0.00333	"	0.333		60	42-114	9	30	
Phenanthrene	0.228	0.00333	"	0.333		69	53-106	8	30	
Indeno(1,2,3-cd)pyrene	0.256	0.00333	"	0.333		77	40-132	9	30	
Fluoranthene	0.236	0.00333	"	0.333		71	43-116	8	30	
Dibenzo(a,h)anthracene	0.247	0.00333	"	0.333		74	40-137	10	30	
Chrysene	0.216	0.00333	"	0.333		65	53-108	9	30	
Benzo(k)fluoranthene	0.218	0.00333	"	0.333		66	39-119	9	30	
Benzo(a)anthracene	0.194	0.00333	"	0.333		58	51-118	8	30	
Naphthalene	0.213	0.00333	"	0.333		64	52-106	7	30	
Benzo(a)pyrene	0.244	0.00333	"	0.333		73	42-123	9	30	

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Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
LCSD (1204870975-BKSD)					Prepared: 07/26/2021 Analyzed: 07/27/2021					
Benzo(ghi)perylene	0.247	0.00333	mg/kg	0.333		74	35-121	9	30	
Anthracene	0.239	0.00333	"	0.333		72	49-113	8	30	
Acenaphthylene	0.242	0.00333	"	0.333		73	42-114	9	30	
Acenaphthene	0.224	0.00333	"	0.333		67	48-107	9	30	
2-Methylnaphthalene	0.221	0.00333	"	0.333		66	50-109	7	30	
1-Methylnaphthalene	0.214	0.00333	"	0.333		64	50-109	8	30	
Surrogate: 5-alpha-Androstane	*0.181*		*"*	*0.166*		*109*	*25-121*			
MS (1204870976 S)		**Source: Y107422-01**			Prepared: 07/26/2021 Analyzed: 07/27/2021					
Benzo(k)fluoranthene	0.300	0.0768	mg/kg dry	0.384	<0.0253	78	26-130			
Acenaphthene	0.315	0.0768	"	0.384	<0.0253	82	29-118			
Phenanthrene	0.330	0.0768	"	0.384	<0.0253	86	27-124			
Naphthalene	0.307	0.0768	"	0.384	<0.0253	80	29-122			
Indeno(1,2,3-cd)pyrene	0.307	0.0768	"	0.384	<0.0253	80	14-132			
Fluorene	0.330	0.0768	"	0.384	<0.0253	86	26-123			
Fluoranthene	0.338	0.0768	"	0.384	0.0531	74	21-122			
Dibenzo(a,h)anthracene	0.307	0.0768	"	0.384	<0.0253	80	16-139			
Chrysene	0.307	0.0768	"	0.384	0.0380	70	31-119			
Pyrene	0.300	0.0768	"	0.384	0.0455	66	19-139			
2-Methylnaphthalene	0.315	0.0768	"	0.384	<0.0253	82	23-124			
Benzo(b)fluoranthene	0.315	0.0768	"	0.384	<0.0253	82	22-130			
Benzo(a)pyrene	0.338	0.0768	"	0.384	<0.0253	88	24-129			
Benzo(a)anthracene	0.276	0.0768	"	0.384	<0.0253	72	31-124			
Acenaphthylene	0.338	0.0768	"	0.384	<0.0253	88	27-122			
1-Methylnaphthalene	0.307	0.0768	"	0.384	<0.0253	80	30-129			
Benzo(ghi)perylene	0.300	0.0768	"	0.384	<0.0253	78	16-124			
Anthracene	0.330	0.0768	"	0.384	<0.0253	86	29-127			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

PAH by 8270D SIM - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154345 - SW846 3541										
MS (1204870976 S)		**Source: Y107422-01**			Prepared: 07/26/2021 Analyzed: 07/27/2021					
Surrogate: 5-alpha-Androstane	*0.238*		*mg/kg dry*	*0.192*	*0.546*	*124*	*25-121*			
MSD (1204870977 SD)		**Source: Y107422-01**			Prepared: 07/26/2021 Analyzed: 07/27/2021					
Benzo(k)fluoranthene	0.202	0.0776	mg/kg dry	0.388	<0.0256	52	26-130	39	30	
Chrysene	0.210	0.0776	"	0.388	0.0380	44	31-119	38	30	
Phenanthrene	0.217	0.0776	"	0.388	<0.0256	56	27-124	41	30	
Dibenzo(a,h)anthracene	0.210	0.0776	"	0.388	<0.0256	54	16-139	38	30	
Fluoranthene	0.225	0.0776	"	0.388	0.0531	44	21-122	40	30	
Fluorene	0.217	0.0776	"	0.388	<0.0256	56	26-123	41	30	
Naphthalene	0.202	0.0776	"	0.388	<0.0256	52	29-122	41	30	
Anthracene	0.225	0.0776	"	0.388	<0.0256	58	29-127	38	30	
Benzo(ghi)perylene	0.202	0.0776	"	0.388	<0.0256	52	16-124	39	30	
Indeno(1,2,3-cd)pyrene	0.210	0.0776	"	0.388	<0.0256	54	14-132	38	30	
Pyrene	0.194	0.0776	"	0.388	0.0455	38	19-139	43	30	
1-Methylnaphthalene	0.210	0.0776	"	0.388	<0.0256	54	30-129	38	30	
2-Methylnaphthalene	0.210	0.0776	"	0.388	<0.0256	54	23-124	40	30	
Acenaphthene	0.210	0.0776	"	0.388	<0.0256	54	29-118	40	30	
Acenaphthylene	0.225	0.0776	"	0.388	<0.0256	58	27-122	40	30	
Benzo(a)anthracene	0.186	0.0776	"	0.388	<0.0256	48	31-124	39	30	
Benzo(a)pyrene	0.225	0.0776	"	0.388	<0.0256	58	24-129	40	30	
Benzo(b)fluoranthene	0.210	0.0776	"	0.388	<0.0256	54	22-130	40	30	
Surrogate: 5-alpha-Androstane	*0.163*		*"*	*0.194*	*0.546*	*84*	*25-121*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Total Metals by 6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2153704 - SW846 3050B										
BLANK (1204869797-BLK)					Prepared: 07/22/2021 Analyzed: 07/23/2021					
Barium	ND	0.498	mg/kg				-			U
Silver	ND	0.498	"				-			U
Selenium	ND	2.99	"				-			U
Lead	ND	1.99	"				-			U
Cadmium	ND	0.498	"				-			U
Arsenic	ND	2.99	"				-			U
Chromium	ND	0.996	"				-			U
LCS (1204869798-BKS)					Prepared: 07/22/2021 Analyzed: 07/23/2021					
Silver	9.50	0.473	mg/kg	9.47		100	80-120			
Arsenic	46.3	2.84	"	47.3		97.7	80-120			
Barium	46.5	0.473	"	47.3		98.2	80-120			
Cadmium	46.1	0.473	"	47.3		97.3	80-120			
Chromium	46.9	0.947	"	47.3		99	80-120			
Selenium	46.9	2.84	"	47.3		99	80-120			
Lead	46.5	1.89	"	47.3		98.1	80-120			
DUP (1204869799 D)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					
Arsenic	5.34	3.14	mg/kg dry		4.12		0-20	25.7	20	
Barium	71.3	0.523	"		67.2		0-20	6	20	
Cadmium	ND	0.523	"		<0.105		0-20	11	20	U
Chromium	15.7	1.05	"		15.4		0-20	2.22	20	
Lead	11.9	2.09	"		10.3		0-20	14.5	20	
Selenium	ND	31.4	"		<5.23		0-20	46	20	U
Silver	ND	0.523	"		<0.105		0-20	13.5	20	U
MS (1204869800 S)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					

Origins Laboratory, Inc.

Jen Pellegrini

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Jen Pellegrini For Noelle Doyle Mathis, President

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Total Metals by 6010C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2153704 - SW846 3050B										
MS (1204869800 S)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					
Barium	127	0.558	mg/kg dry	55.8	67.2	106	75-125			
Silver	11.0	0.558	"	11.2	<0.112	97.7	75-125			
Selenium	24.8	33.5	"	55.8	<5.58	44.4	75-125			
Lead	61.6	2.23	"	55.8	10.3	91.9	75-125			
Cadmium	49.9	0.558	"	55.8	<0.112	89.5	75-125			
Arsenic	57.2	3.35	"	55.8	4.12	95.1	75-125			
Chromium	68.0	1.12	"	55.8	15.4	94.2	75-125			
PS (1204870788 S)		**Source: Y107422-01**			Prepared: 07/22/2021 Analyzed: 07/23/2021					
Selenium	5.72	0.351	mg/kg dry	0.500		97.8	75-125			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Total Metals by 7471A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2154000 - SW846 7471A Prep										
BLANK (1204870396-BLK)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	ND	0.0233	mg/kg				-			U
LCS (1204870397-BKS)					Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	0.243	0.0235	mg/kg	0.235		103	80-120			
DUP (1204870402 D)		**Source: 549304001**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	ND	0.0246	mg/kg dry		0.00766		0-20	5.58	20	U
MS (1204870403 S)		**Source: 549304001**			Prepared: 07/23/2021 Analyzed: 07/26/2021					
Mercury	0.258	0.0238	mg/kg dry	0.238	0.00766	105	80-120			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

CTL Thompson, Inc.
1971 West 12th Avenue
Denver CO 80204

Chrissy Whitacre
Project Number: FC10041
Project: 4060 County Line Road

Notes and Definitions

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

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CTL | THOMPSON

50 YEARS

FOUNDED IN 1971

PHASE I ENVIRONMENTAL SITE ASSESSMENT
4060 COUNTY LINE ROAD
ERIE, COLORADO

Prepared for:

DIVERGE HOMES
603 South Public Road Unit 765
Lafayette, Colorado 80026

Attention: Mr. Nick Jacobs

Project No. FC10041.000-200-R1

August 23, 2021

1971 West 12th Avenue | Denver, Colorado 80204 | Phone: 303-825-0777 | Fax: 303-825-4252 | www.ctlt.com

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GLOSSARY OF TERMS

1,1-DCA	1,1-Dichloroethane
1,2-DCA	1,2-Dichloroethane, also **DCA**
1,1-DCE	1,1-Dichloroethene
1,2-DCE	1,2-Dichloroethene, also **DCE**
AB	Abandoned Wellbore or Completion (COGCC)
AC	Active (COGCC)
AL	Abandoned Location (COGCC)
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Activity and Use Limitation
BF	Brownfields Management System
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CAP	Corrective Action Plan, also **CMWP** (Corrective Measures Work Plan)
CBGWQS	Colorado Basic Groundwater Quality Standards
CCOD	City and County of Denver
CDL	Clandestine Drug Laboratory Locations
CDPHE	Colorado Department of Public Health and Environment
CDPS	Colorado Discharge Permit System
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CL	Closed (COGCC)
CLEANERS	Dry Cleaning Facility
COC	Chain of Custody, or Contaminants of Concern
COGCC	Colorado Oil and Gas Conservation Commission
CREC	Controlled REC
DA	Dry and Abandoned (COGCC)
DG	Drilling (COGCC)
DM	Domestic Well
DOE	Department of Energy
DPE	Dual Phase Extraction
DWR	Colorado Division of Water Resources
EISB	Enhanced In-Situ Bioremediation
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
ERNSCO	Emergency Response Notification System
ERR	Environmental Records Review
HMWMD	Hazardous Materials and Waste Management Division (CDPHE)
HREC	Historical REC
HW	Hazardous Waste
HWS	Hazardous Waste Sites
HWSCA	HWS Corrective Action
HISTSWLF	Historical Solid Waste Landfills
ISCO	In-Situ Chemical Oxidation
LQG	Large Quantity Generator
LST	Leaking Storage Tank
LUSTTRUST	LST Trust Fund Sites
MCL	Maximum Contaminant Level
MCLG	MCL Goal
MDL	Method Detection Limit
MEK	Methyl Ethyl Ketone

MS4	Municipal Separate Storm Sewer System
MTBE	Methyl Tertiary-Butyl Ether
NAD	No Action Determination
NFA	No Further Action
NMA	Natural Monitored Attenuation
NRCS	Natural Resources Conservation Service
OPS	Colorado Department of Labor and Employment, Division of Oil and Public Safety
PA	Plugged and Abandoned (COGCC)
PAH	Polynuclear Aromatic Hydrocarbons
PCE	Perchloroethylene (also Tetrachloroethylene)
ppb	Parts per Billion
ppm	Parts per Million
PQL	Practical Quantitation Limits
PR	Producing (COGCC)
PRB	Permeable Reactive Barriers
RBSL	Risk Based Screening Level, also **RSL**
RC	Recompleted (COGCC)
RCRA	The Resource Conservation and Recovery Act
RCRAC	RCRA Corrective Action Facility
RCRAGR08	RCRA Generator Facility, EPA Region 8
RCRANGR08	RCRA Non-Generator Facility, EPA Region 8
REC	Recognized Environmental Condition
RL	Reporting Limit
ROD	Record of Decision
RSL	Regional Screening Level
SDWA	Safe Drinking Water Act
SF	Superfund Site
SI	Shut In (COGCC)
SQG	Small Quantity Generator
SRG	Standards Remediation Goal
SVE	Soil Vapor Extraction
SWF	Solid Waste Facility
SWMP	Storm Water Management Plan
TA	Temporarily Abandoned (COGCC)
TCA	1,1,1-Trichloroethylene
TCE	Trichloroethylene
TEPH	Total Extractable Petroleum Hydrocarbons
TPH	Total Petroleum Hydrocarbons
TSD	Treatment, Storage, and Disposal
TVPH	Total Volatile Petroleum Hydrocarbons
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
UST	Underground Storage Tank
VISL	Vapor Intrusion Screening Level
VCRA	Voluntary Cleanup and Redevelopment Program, also **VCP**
WO	Waiting on Completion (COGCC)
WQCD	Water Quality Control Division
wrt	With Respect To
XX	Location (COGCC)

EXECUTIVE SUMMARY

This report presents the results of the Phase I Environmental Site Assessment (ESA) that was performed by CTL | Thompson, Inc. for Diverge Homes. The Site is located at 4060 County Line Road in Erie, Colorado.

The Phase I ESA was conducted in general conformance with the methods and procedures described in the American Society for Testing and Materials (ASTM) E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

The Site currently consists of vacant land with gravel fill. The Site appears to have been primarily vacant agricultural land until it was developed with a large warehouse building in the early 1970s for a concrete precast construction business. The building was present on-Site until the late 2010s. Two Phase II Environmental Site Assessments were completed on-Site in 2013 which revealed no-significant contamination on-Site. We do not believe that past use of the Site presents a REC for the Site. The surrounding area has been generally residential from at least the late 1930s.

We did not find obvious evidence of a recognized environmental condition in connection with the Site.

This executive summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

1.0 INTRODUCTION

This report was prepared by CTL | Thompson, Inc. (CTL) for Diverge Homes and presents the results of the Phase I Environmental Site Assessment (ESA) for the property located at 4060 County Line Road, hereto referred to as the "Site". The Phase I ESA was conducted in general accordance with CTL's Service Agreement FC 21-0353, dated June 17, 2021, and subsequent authorization by Mr. Nick Jacobs on June 17, 2021.

1.1 Purpose

The purpose of the Phase I ESA was to identify Recognized Environmental Conditions (REC), to the extent feasible, pursuant to the methods and procedures described in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessments, E 1527-13.

A REC is defined as the presence or likely presence of hazardous substances or petroleum products on a site under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the Site or into the ground, groundwater, or surface water of the Site. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

ASTM Standard E1527-13 also has separate definitions for past conditions that would otherwise be considered a REC but have been addressed to the satisfaction of the applicable regulatory agencies and would either allow for generally unrestricted use of the Site (referred to as a Historical Recognized Environmental Condition, or HREC) or for use of the Site with various restrictions (referred to as a Controlled Recognized Environmental Condition, or CREC).

As per ASTM E1527-13, a business environmental risk is defined as a risk that may have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a property of commercial real estate, but not necessarily limited to the

environmental scope required to be investigated in this practice. Non-scope considerations that may be addressed in this type of risk are listed in Section 1.3.

1.2 Scope of Services

The scope of services for this assessment consisted of a records review, a Site reconnaissance, historical research, interviews, and documentation of findings in a report.

1.3 Limitations

This Phase I ESA was prepared in general accordance with ASTM Standard E 1527-13. There may be additional environmental issues present at the site that are outside the scope of this practice that include, but are not limited to, the following:

- Asbestos-containing materials;
- Radon;
- Lead-based paint;
- Lead in drinking water;
- Cultural and historic resources;
- Mold and fungi;
- Industrial hygiene;
- Indoor air quality;
- Health & safety;
- Ecological resources;
- Endangered species;
- Biological or infectious agents and pathogens;
- Wetlands;
- Jurisdictional waters of the U.S;
- Regulatory compliance;
- High voltage power lines; and,
- Mine subsidence.

CTL provided an opinion based upon the condition of the Site on the day it was observed and a review of existing and reasonably ascertainable regulatory records and historical information. Our scope did not include chemical testing of soil, groundwater, air, or building materials. Sampling and analysis lead to a more reliable assessment of environmental conditions. The opinion, conclusions, and recommendations of this report are not intended to be used or relied upon by a third party to this Agreement. With the written consent of our client, CTL may be available to

contract with other parties to provide an opinion or conduct additional environmental assessment services. Due to latent conditions and other contingencies which may become evident in the future, the current assessment does not result in any guarantee the subject Site is free and clear of hazardous materials. Should additional surface, subsurface or chemical data become available, the conclusions and recommendations contained in this report shall not be considered valid unless the data is reviewed, and the conclusions of this report are modified or approved in writing by our firm.

We believe that this investigation was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

2.0 SITE DESCRIPTION AND LOCATION

TABLE I
LOCATION AND LEGAL DESCRIPTION

Descriptor	Description
Location	4060 County Line Road in Erie, Weld County, Colorado 80516
Township and Range	West ½ of Section 18, Township 1 North, Range 68 West of the 6th Principal Meridian
USGS Quadrangle	Estes Park
Parcel Number(s)	Main – 146718300003 SE Corner - 146718300013
Legal Description (Abbreviated)	Main - ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK4 HUNTS 1ST ADD TO ERIE W TO W LN SEC S214.7' E526' N131.7' E96' N83' TO BEG (2.5A M/L) SE Corner - ERI 24876 PT SW4 18-1-68 BEG 20'W OF SW COR L1 BLK2 HUNTS 1ST ADD W96' N131.7' E96' S131.7' TO BEG
Current Use	Vacant land
Total Land Area	2.79 acres
Ownership	Erie Junction, LLC

The Site location and plan are shown in the attachments on Figure 1 (Area Map) and Figure 2 (Site Map).

2.1 General Description of Site and Improvements

The Site is vacant land and gravel fill in a somewhat naturally vegetated state. A photographic record of our Site reconnaissance is presented in **Appendix A**.

2.2 General Uses of Adjoining Properties

The Site is located within a residential area of Erie. The adjoining properties generally consist of single-family homes, and a daycare. Additional details regarding our observations of adjacent properties are presented in Section 7.4 of this report.

3.0 USER PROVIDED INFORMATION

Mr. Nick Jacobs of Diverge Homes, responded to our Client Questionnaire via email on July 19, 2021. A summary of Mr. Jacob's responses to our questionnaire is below.

3.1 Environmental Liens/Title Records

An environmental lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous material or petroleum products upon a property. Mr. Jacobs was not aware of existing environmental liens on the Site.

CTL was provided with title records available from Old Republic National Title Insurance Company, Order No. FC25169910 dated December 17, 2020. Based on a cursory review of the title exceptions in Schedule B – Section 2 "Exceptions", there were no obvious indication of environmental liens or AULs associated with environmental contamination. It should be noted that CTL's practitioners are not title professionals or attorneys, and our review of title documents does not necessarily eliminate the user's ASTM requirement to perform a search for environmental liens and AULs.

3.2 Activity and Use Limitations

Environmental AULs are legal or physical restrictions or limitations on the use of, or access to, a Site or facility to: 1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or 2) prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions may include engineering controls, institutional controls, or land use restrictions. Mr. Jacobs was not aware of recorded environmental AULs in relation to the Site.

3.3 Specialized Knowledge

Mr. Jacobs was not aware of nor possessed specialized knowledge or experience associated with environmental concerns on the Site.

3.4 Valuation Reduction for Environmental Issues

Mr. Jacobs was not aware of valuation reduction of the Site because of environmental issues.

3.5 Commonly Known or Reasonably Ascertainable Information

Mr. Jacobs was aware of the environmental information related to the Site discussed in Section 3.8.

3.6 Owner, Site Manager, and Occupant Information

Mr. Jacobs indicated that the Site is currently owned by Diverge Homes. Further owner details are presented in Section 8.1 of this report. The Site is currently vacant land and was formerly occupied by a large building which housed a precast concrete business.

3.7 Reason for Performing a Phase I ESA

Mr. Jacobs requested a Phase I ESA prior to development of the Site.

3.8 Previous Environmental Site Assessments

CTL previously conducted a Phase I ESA for 4060 County Line Road under our Project Number FC05859.000-200-R1 dated June 7, 2012. This report found several RECs associated with the Site. The report considered potentially contaminated soil and groundwater from leaking drums, building materials within the warehouse, stockpiles with hazardous materials containers, improper use or storage of hazardous materials, and a previous or existing underground storage tank. The report recommended a Phase II ESA.

CTL conducted a Phase II ESA for 4060 County Line Road under our Project Number FC05859.001, letter dated April 12, 2013. CTL subcontracted Ground Penetrating Radar Systems to conduct a GPR survey of locations believed to have been likely locations of a former gasoline UST. The GPR survey identified two locations with apparent changes in soil density near the northeast corner of the building and approximately 20 feet further west. Based on test pits excavated at these locations, it was determined that the northeast corner of the building could have been the former UST location, although there was not sufficient evidence to confirm. Additionally, eight borings were advanced around the Site. Of the soil samples collected, only the sample from the trench inside the pre-cast building contained petroleum hydrocarbons, although levels were less than the 500 mg/kg Colorado standard. Based on field observation and laboratory analytical results for the two sample locations inside the building, it appeared that form-oil or other materials at the pre-cast operation impacted surface and subsurface soils. Groundwater samples taken outside the building did not contain VOC levels above laboratory detection levels. This report recommended further investigation inside the pre-cast building.

CTL then conducted a Supplemental Phase II ESA for 4060 County Line Road under our Project Number FC05859.001, letter dated September 17, 2013. A total of eighteen surface soil samples and borings were collected inside the pre-cast building. Of these samples, two surface samples contained an Oil & Grease concentration of 5,800 mg/kg and 1,500 mg/kg above the Colorado limit of 500 milligrams per kilogram (mg/kg). Toluene was detected in all four

groundwater samples taken, at concentrations up to 7.6 µg/l, which is well below the Colorado groundwater standard of 500 µg/l. None of the samples had detected levels of Oil & Grease, benzene, ethylbenzene, or xylenes above MDLs. The report concluded that if the Colorado Voluntary Cleanup (VCUP) program was entered, a final Site development plan would need to be prepared and a work plan developed.

Previous ESAs are presented in **Appendix D**.

4.0 RECORDS REVIEW

CTL reviewed existing sources listed in the **References** section to assess the soils, geologic and hydrogeologic conditions of the general vicinity of the Site.

4.1 Physiography

The regional topography slopes down to the east-northeast as presented on the topographic map (Figure 1). The Site is generally flat. The elevation of the Site is approximately 5,033 feet above mean sea level. The predominant surface water feature in the vicinity of the Site is Coal Creek, located approximately ½ mile east of the Site.

4.2 Geology and Soils

A Preliminary Geotechnical Investigation report was completed by Cole Garner Geotechnical at the Site on October 28, 2020, under Project No. 20.22.172. The near-surface soils at the Site consisted primarily of lean clay with varying amounts of sand to depths of approximately 7 to 12 feet. The report states that earthen fill may be present in areas of the Site where prior development was razed. Sedimentary claystone or sandstone bedrock was encountered in three of the nine borings at depts of about 31 to 33 feet below existing grades. The report should be read in its entirety for more details.

4.3 Groundwater

Groundwater was encountered at 18 to 22 feet bgs during the Preliminary Geotechnical Engineering Investigation at the Site in October 2020. When the borings were checked four days later, groundwater was encountered between 17 to 20 feet in eight of the nine boreholes. It is our experience that shallow, unconfined groundwater is generally controlled by topography. Based on topography, we estimate the general direction of groundwater flow below the Site is to the east-northeast towards Coal Creek.

4.4 Water Wells

Water wells were identified through the Colorado DWR online water well permit database. The database indicated the presence of four registered wells located on or near the Site.

TABLE II
WELL DESCRIPTION AND APPROXIMATE DISTANCE AND DIRECTION FROM THE SITE

Well Name	Permit No.	Applicant	Uses	Abandon Date	Location wrt the Site
N/A	107333-	Andrew D. Louis	Domestic	N/A	~85 ft NE
N/A	107333--A	Andrew D. Louis	Domestic	N/A	~95 ft NE
N/A	80005-	Ruby & Thelbert Miller	Domestic	N/A	~165 ft NE
N/A	44421-	St. Vrain Valley School Dist	Domestic	N/A	~290 ft N

We do not believe that these wells indicate a REC for the Site.

4.5 Oil/Gas Wells

Oil and gas wells were identified through the COGCC online database. The database did not indicate the presence of oil/gas wells on or within a quarter-mile of the Site.

4.6 Physical Setting Analysis of Substance Migration

A hypothetical spill of a hazardous or petroleum substance on the Site would be expected to migrate along the ground surface to the east-northeast. Off-site surface spills on the adjoining parcels to the west-southwest appear to have the highest potential to migrate on-site. Sources of contamination to groundwater beneath the Site, if present, would most likely be located to the west-southwest.

5.0 HISTORICAL USE INFORMATION

5.1 Historical Aerial Photographs and Topographic Maps

Historical aerial photographs of the Site and surrounding area were reviewed for 1937, 1941, 1948, 1953, 1963, 1966, 1971, 1975, 1978, 1983, 1988, 1993, 1999, 2004, 2005, 2006, 2009, 2011, 2013, 2015, 2017, and 2019; these are presented in **Appendix B**. Additional photographs from selected years between 1993 - 2020 were provided by GoogleEarth. USGS topographic maps were reviewed for 1950, 1951, 1954, 1958, 1961, 1964, 1965, 1967, 1971, 1979, and 1984. An interpretation of the aerial photographs and maps is presented, as follows:

TABLE III
AERIAL PHOTOGRAPH AND TOPOGRAPHIC MAP SUMMARY

Date Range	Land and Features Description
1937 - 1963	The majority of the Site appears to be generally agricultural. The northeast corner of the Site has trees and possible structures. Properties to the north and east are generally developed with single-family homes. Properties to the south and west appear generally vacant or agricultural with rural residences. Erie Middle School is visible to the north.
1966 - 1971	The Site is no longer agricultural and appears to have several structures or storage. The 1971 photo may show the Site as it is developed with the large structure. The property to the west of the Site is developed with commercial or residential structures.
1975 - 1993	The Site is developed with a large building. Properties to the south are developed with single-family homes. The property to the southwest is developed with a commercial property.
1999 - 2013	The Site still has a large building, and the Site appears to have a lot of equipment or containers located on-Site. The commercial property to the southwest expands in size.
2015 – 2020	The Site and surrounding area appear generally as they do today. The large building is no longer present on-Site. The location of the former building is still generally visible as the Site becomes naturally vegetated.

5.2 Sanborn Fire Insurance Maps

Sanborn fire insurance maps were a tool used by the fire insurance industry to evaluate property risk. The maps often show details of historic dwellings, commercial buildings, and factories, indicate property uses and addresses, and show locations of items such as wells, cisterns, and fuel storage tanks. Sanborn Fire Insurance Map coverage was not available for the Site.

5.3 City Directory Listings

In our 2012 Phase I ESA, city directories were ordered but none were available for this address range.

5.4 Assessor Records

We reviewed Erie County Assessor online files for the Site. The Site is currently owned by Erie Junction, LLC. There are no records of buildings.

5.5 Zoning/Land Use Records

The Site is currently classified as vacant land and zoned as Old Town Residential (OTR) By the Town of Erie.

6.0 REGULATORY AGENCY RECORDS

Regulatory agency records were provided by GeoSearch. The radius report, dated July 21, 2021, is presented in **Appendix C**.

6.1 Summary of Findings

Table IV presents a summary of selected regulatory agency record findings provided by GeoSearch. The findings presented in Table IV are those determined to be topographically

up-gradient and/or near proximity to the Site to warrant further discussion. The findings and their locations are listed by address along with a description of their distance in relation to the Site.

TABLE IV
SELECTED REGULATORY AGENCY FINDINGS

Findings	Approximate Distance and Topographic Location	Search Radius													
		1 Mile		*½ Mile*					*¼ Mile*						
		NPL	*RCRAC Site*	*VCRA Program*	*SEMS*	*RCRA TSD*	*SWF/ Landfill*	*LST Facility*	*RCRA Generator/Non-Generator*	*CLEANERS*	*Registered Storage Tanks*	*Institutional Controls/Engineering Controls (AUL)*	*Spills*	*Other HW*
Erie Precast Concrete Products *Site*	On-Site										X			
Erie Maintenance Shop *1149 Telleen Ave.*	~990 feet West-Southwest *Up-gradient*							X			X			

The radius report did not present unmapped listings.

6.2 Detailed Discussion of Findings

This section discusses those findings listed in Table IV which are located topographically up-gradient of the Site or which otherwise may present an environmental concern to the Site. The Site is listed on the asbestos database, which suggests that proper inspection and demolition procedures took place, though this is beyond the scope of our Phase I ESA.

The Site is listed on the Above Ground Storage Tank and Underground Storage Tank databases. Records indicate that the Site had two 500-gallon diesel ASTs, now permanently closed. Additionally, records indicate that one underground gasoline UST, installed in 1978, was located on-Site. Records indicate that this tank is permanently closed, however no supporting

documentation is available. CTL previously performed a Phase II Environmental Site Assessment, discussed in Section 3.8, in which we determined that the UST is no longer located on-Site and may have been previously located near the northeast corner of the building.

Erie Maintenance Shop, located approximately 990 feet west-southwest and up-gradient of the Site, is listed on the Leaking Storage Tank and Above Ground Storage Tank databases. Records indicate that the property had a 6,000-gallon diesel/gasoline tank, now permanently closed. Additionally, an unleaded gasoline and diesel tank was removed in October 2010. Soil samples taken during removal operations were all non-detect for BTEX, TVPH, and TEPH. Due to its regulatory status and distance from the Site, we do not consider this listing a REC for the Site.

6.3 Local Government Records

We contacted the Town of Erie regarding records related to the release of hazardous materials at the Site. Ms. Debbie Stamp responded to our request for an ERR on July 30, 2021. Ms. Stamp provided us with several documents pertaining to the Site, including the two Phase II Environmental Site Assessments discussed in Section 3.8. Additionally, Ms. Stamp provided us with a Preliminary Geotechnical Report completed by Cold Garner Geotechnical, discussed in Sections 4.2 and 4.3, and a Review of Phase II Environmental Site Assessments and Geotechnical Report, completed by Savage and Savage on April 13, 2021. This review recommended obtaining a No Action Determination (NAD) through submittal of a Voluntary Cleanup Application to the CDPHE. We were not provided with records pertaining to adjacent properties.

We contacted the Mountain View Fire Department (MVFD) regarding records of hazardous materials at the Site. Ms. LuAnn Penfold responded to our ERR request on July 20, 2021. As per the email response, there was a response to an electrical short in the existing building on March 19, 2066 when Erie Precast occupied the building. There are no other records on file of significant hazardous materials incidents, or other responses/complaints at the subject Site.

Local government responses are presented in **Appendix D**.

7.0 SITE RECONNAISSANCE

The following section discusses observations made during our Site reconnaissance.

7.1 Methodology and Limiting Conditions

Ms. Christine Whitacre conducted a Site visit on August 3, 2021. Balcom Street provided access to the Site. The majority of the Site was accessed by walking. A photographic record of our Site reconnaissance is presented in **Appendix A**.

7.2 Description of Site Structures and Roads

The Site is currently vacant land with concrete pads and gravel soils.

7.3 Site Observations

During our reconnaissance, we specifically looked for obvious evidence of the Site features listed in Table V. Table V lists features typically observed outside of Site structures. An "X" located within the table indicates that the feature was readily observable. Those features which were observed on the Site are discussed in further detail within the following subsection(s).

TABLE V
EXTERIOR SITE FEATURES

	Aboveground Storage Tanks		Stained Soil and/or Pavement
	Air Emissions Sources	X	Stockpiles of Soil or Debris
	Cultivated Land/Crops		Stressed Vegetation
	Drains, Sumps, Pits		Surface Water, Streams, Ponds, Lagoons
	Hazardous Material Storage		Transformers (Potential PCB)
	High Power Transmission Lines		Underground Storage Tanks
	Natural Gas Pipelines		Unidentified Piping Below Grade
	Odors		Unidentified Substance Containers
	Petroleum Pipelines		Vehicle Maintenance Areas
	Physical Irregularities		Waste Water Discharge
X	Placed Fill or Imported Soils		Waste Treatment Processes
	Railroad Lines		Wells (Agricultural, Water Supply)
	Septic Systems or Leach Fields		Wells (Monitoring)
	Solid Waste or Disposal Areas		Wells (Oil or Natural Gas)

7.3.1 Stockpiles of Soil or Debris

We observed two precast concrete lids in the eastern portion of the Site. It is not known if these are abandoned product from the previous precast business or if there is possibly a vault or pit associated with these. In our previous investigation we inquired with the owner if there were any pits or vaults on-Site that were associated with these lids, and they were not aware of any. We do not believe these lids present a REC for the Site.

7.3.2 Placed Fill or Imported Soils

We observed two track pads and placed gravel around the Site. Based on our understanding of the Site we believe that this gravel was brought onto the Site for the purpose of being used to surface the parking lot. We did not observe obvious staining or debris which could indicate contamination of the material. Therefore, we do not consider this nonnative material to be an REC for the Site.

7.4 Review of Adjacent Properties

General observations of properties adjacent to the Site were performed in conjunction with on-site observations made on July 21, 2021. Properties near the Site consists of single-family residences and a daycare. Properties immediately adjacent to the Site are described below, based on outdoor observations from the Site or nearby public streets.

TABLE VI
ADJACENT PROPERTY DESCRIPTIONS

Direction	Bounding Property Description
North	Single-family residences
East	Single-family residences
South	Single-family residences
West	County Line Road and a daycare beyond

Observation of adjacent properties did not reveal obvious visual indications of environmental concern. We did not observe evidence of landfills, lagoons, pits, or other waste treatment or disposal operations; underground storage tanks, spills, releases, or discharge of hazardous material which could negatively impact the Site.

8.0 INTERVIEWS

8.1 Owner, Site Manager and/or Occupants

Mr. Nick Jacobs is the current owner representative for the Site. Mr. Jacobs was not aware of any previous ESAs other than the reports discussed in Section 3.8.

9.0 DEVIATIONS

9.1 Exceptions and Deletions

ASTM Standard E 1527-13 for Phase I Environmental Site Assessments, Subsection 8.3.2, states that "all obvious uses of the Site shall be identified from the present, back to the Site's obvious first developed use, or back to 1940, whichever is earlier." The term "developed use" includes agricultural uses (i.e., cultivated land/agricultural crops) and placement of fill. In our opinion, livestock rangeland is not a developed use.

The historical documentation for this assessment went back to 1937 on the basis of historical aerial photographs, which showed the Site as agricultural land before it was developed with a large building. We were not able to ascertain the date of first development. Thus, the ASTM historical standard was not fully satisfied.

It is the opinion of CTL that obtaining earlier historical information would not be sufficiently useful, reasonably ascertainable, or change the likelihood for the presence of a REC on the Site.

9.2 Data Gaps

Based on the information presented in this report, we do not believe that there is a significant data gap which would affect our ability to identify RECs associated with the Site.

10.0 FINDINGS AND OPINION

10.1 Summary of Site Historical Use

The Site currently consists of vacant land with gravel fill. The Site appears to have been primarily vacant agricultural land until it was developed with a large warehouse building in the early 1970s for a concrete precast construction business. The building was present on-Site until the late 2010s. Two Phase II Environmental Site Assessments were completed on-Site in 2013 which revealed no-significant contamination on-Site. We do not believe that past use of the Site presents a REC for the Site.

Based on our understanding of the types of crops that are typically grown in Colorado, it is our belief that significant contamination from normal pesticides and herbicide application is unlikely. Application of pesticides and herbicides is more prevalent on fruits and vegetables, and less prevalent on field crops such as alfalfa, hay, and feed corn that are common in Colorado. Normal application of pesticides and herbicides is also subject to dilution and breakdown that occurs over time, due to sunlight and aeration in the upper portion of topsoil. As such, we do not believe that previous agricultural use at the Site presents a REC.

10.2 Nearby Environmental Concerns

There were several facilities on the regulatory database, including the Site and a leaking storage tank at the Erie Maintenance Shop located up-gradient of the Site. We do not believe that these listings do not present an environmental concern on the basis of regulatory status, distance, and/or topographic gradient.

We did not find evidence of a REC associated with the Site.

11.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E 1527-13 of the property located at 4060 County Line Road in Erie, Colorado. Any exceptions to, or deletions from this practice are described in

Section 9.1 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

We believe that our Phase II Environmental Site Assessments on the Site indicate that the contamination present in soils and groundwater is below applicable Colorado standards.

12.0 QUALIFICATIONS

This Phase I ESA was reviewed and supervised by Mr. Matthew Wardlow, a registered engineer in Colorado. Mr. Wardlow has performed or reviewed over 1,000 Phase I ESAs in the State of Colorado and has been practicing within the local environmental consulting profession for at least 25 years. The resumes of the individuals conducting this Phase I ESA are included in **Appendix F**.

I, Mr. Wardlow, declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject Site. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

We believe that this ESA was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

If we can be of further service in discussing the contents of this report, please call.

CTL | THOMPSON, INC.

Christine Whitacre
Environmental Technician

Reviewed by:

Matthew L. Wardlow, P.E.
Environmental Department Manager – Denver Branch

CMW/MLW:nn

Via e-mail: nick.jacobs@divergehomes.com

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Phase II Environmental Assessment: 4060 County Line Road. Project No. FC05859.001. CTL Thompson, April 12, 2013.

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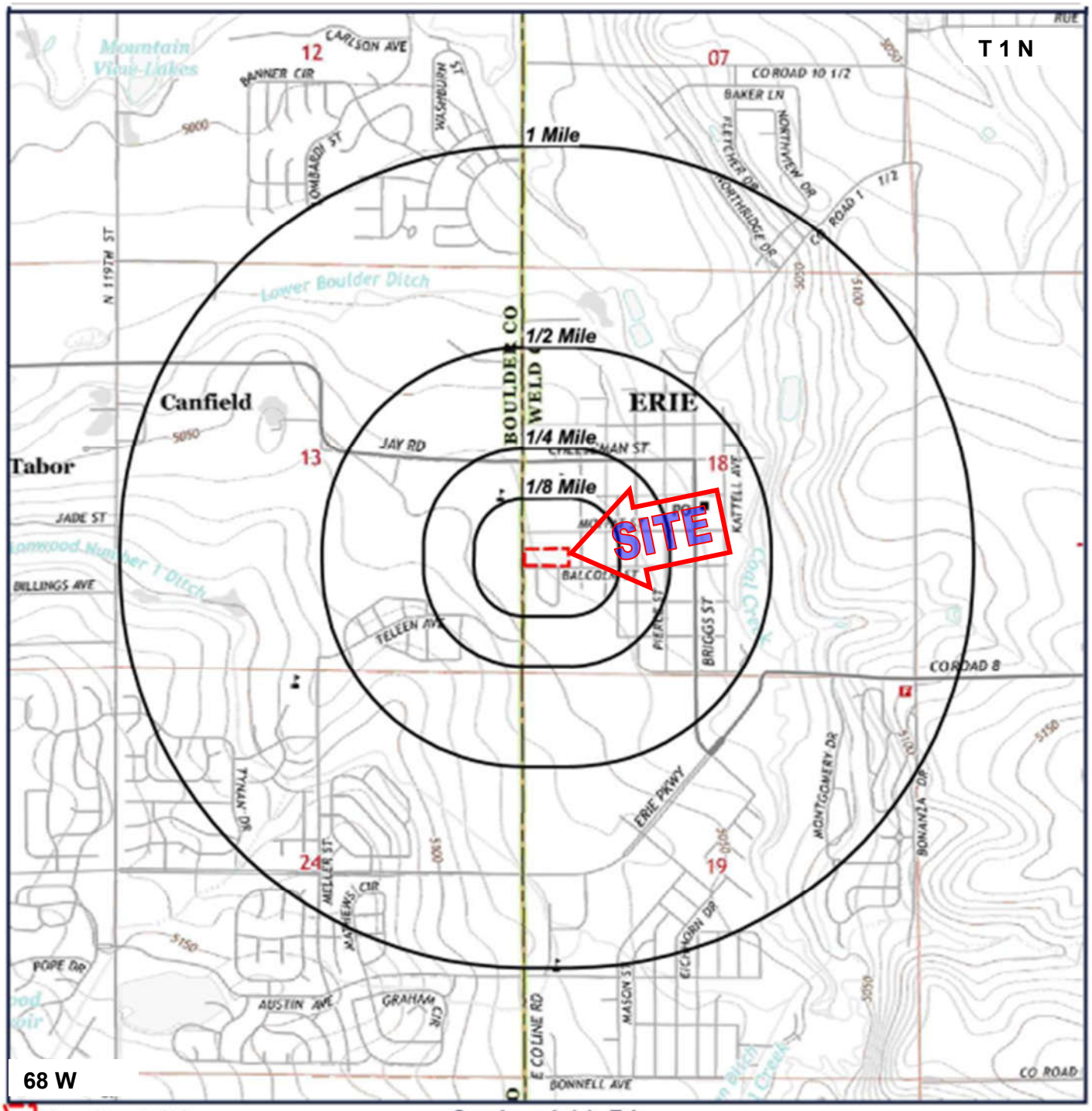
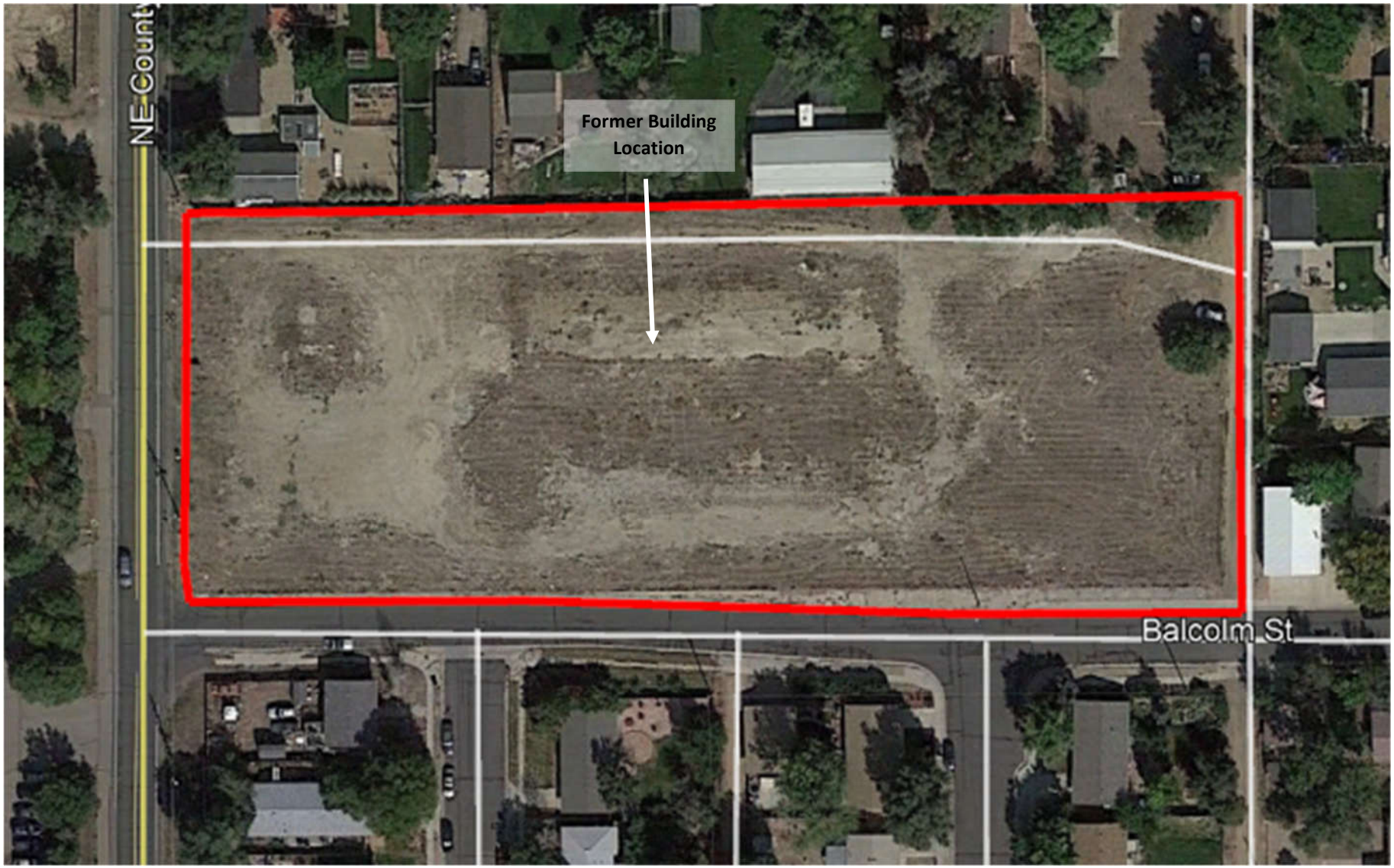


DIVERGE HOMES
4060 COUNTY LINE ROAD
CTL PROJECT NO. FC10041.000-200-R1

TOPOGRAPHIC AREA MAP
FIG. 1



DIVERGE HOMES
4060 COUNTY LINE ROAD
CTL PROJECT NO. FC10041.000-200-R1

SITE MAP
FIGURE 2

APPENDIX A

SITE PHOTOGRAPHS

Overall Site Photos

Description: General Site view
Direction: East

Description: General Site view
Direction: West

Description: West end of Site
Direction: Northwest

Description: Precast lid
Direction: N/A

SITE PHOTOGRAPHS

CTL | THOMPSON

Description: West end of Site with County Line Road and daycare beyond
Direction: West

Description: Single-family homes to the north
Direction: Northeast

Description: Single-family homes to the east
Direction: East

Description: Single-family homes to the south
Direction: Southwest

SITE PHOTOGRAPHS

APPENDIX B

HISTORICAL AERIAL PHOTOGRAPHS

GeoSearch
On time. On target. In touch.™

Historical Aerial Photographs

***NEW:** GeoLens by Geosearch*

Target Property:

4060 County Line Road

Erie, Weld, Colorado 80516

Prepared For:

CTL Thompson- Denver

Order #: 167868
Job #: 417576
Project #: FC10041.000
Date: 7/23/2021

Target Property Summary

4060 County Line Road

Erie, Weld, Colorado 80516

USGS Quadrangle: ***Erie***
Target Property Geometry: ***Area***

Target Property Longitude(s)/Latitude(s):
(-105.055414119, 40.047732689), (-105.055408755, 40.048330856), (-105.053348818, 40.048342471), (-105.053340772, 40.047729785)

Aerial Research Summary

Date	Source	Scale	Frame
2019	USDA	1" = 500'	N/A
2017	USDA	1" = 500'	N/A
2015	USDA	1" = 500'	N/A
2013	USDA	1" = 500'	N/A
2011	USDA	1" = 500'	N/A
2009	USDA	1" = 500'	N/A
2006	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2004	USDA	1" = 500'	N/A
10/04/1999	USGS	1" = 500'	N/A
06/30/1993	USGS	1" = 500'	N/A
09/19/1988	USGS	1" = 1000'	1047-156
10/05/1983	USGS	1" = 500'	483-68
07/08/1978	USGS	1" = 500'	2-80
06/29/1975	USGS	1" = 500'	18-3
08/06/1971	USGS	1" = 500'	2-198
10/04/1966	USGS	1" = 500'	1-148
09/03/1963	ASCS	1" = 1320'	PI-14
09/10/1953	AMS	1" = 500'	4864
09/23/1948	USGS	1" = 500'	4-46
07/29/1941	ASCS	1" = 500'	1-37
06/22/1937	ASCS	1" = 500'	1-27

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4060 County Line Road
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GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
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2017

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USDA
2015

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
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2013

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4060 County Line Road
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GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
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GeoSearch

JOB #: 417576 - 07/23/2021

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USDA
2006

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USDA
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JOB #: 417576 - 07/23/2021

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4060 County Line Road
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JOB #: 417576 - 07/23/2021

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4060 County Line Road
USGS
10/04/1999

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4060 County Line Road
USGS
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GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USGS
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GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
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10/05/1983

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USGS
07/08/1978

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USGS
06/29/1975

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USGS
08/06/1971

GeoSearch

JOB #: 417576 - 07/23/2021

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4060 County Line Road
USGS
10/04/1966

GeoSearch

JOB #: 417576 - 07/23/2021

N
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4060 County Line Road
ASCS
09/03/1963

GeoSearch

JOB #: 417576 - 07/23/2021

N
W E
S

4060 County Line Road
AMS
09/10/1953

GeoSearch

JOB #: 417576 - 07/23/2021

N
W E
S

4060 County Line Road
USGS
09/23/1948

GeoSearch

JOB #: 417576 - 07/23/2021

N
W E
S

4060 County Line Road
ASCS
07/29/1941

GeoSearch

JOB #: 417576 - 07/23/2021

N
W E
S

4060 County Line Road
ASCS
06/22/1937

GeoSearch

JOB #: 417576 - 07/23/2021

APPENDIX C

GEOSEARCH REPORT

GeoSearch
On time. On target. In touch.™

Radius Report

GeoLens by GeoSearch

Target Property:

4060 County Line Road
Erie, Weld County, Colorado 80516

Prepared For:

CTL Thompson- Denver

Order #: 167868
Job #: 417575
Project #: FC10041.000
Date: 07/21/2021

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Unlocatable Report . . . . . See Attachment

Zip Report . . . . . See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR ï¿½312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR ï¿½312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

4060 County Line Road
Erie, Colorado 80516

Coordinates
Area centroid (-105.05437, 40.0480336)
5,033 feet above sea level

USGS Quadrangle
Erie, CO

Geographic Coverage Information

County/Parish: Weld (CO) , Boulder (CO)
ZipCode(s):
Erie CO: 80516

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSCO	1	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR08	0	0	0.2500
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR08	0	0	0.2500
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	1.0000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000

SUB-TOTAL		1	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
CERCLIS LIENS	SFLIENS	0	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR08	1	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSCO	1	0	TP/AP
HAZARDOUS WASTE COMPLIANCE DOCKET FACILITIES	HWCD	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR08	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR08	0	0	TP/AP
SEMS LIEN ON PROPERTY	SEMSLIENS	0	0	TP/AP
SSEHRI PFAS CONTAMINATION SITES	SSEHRIPFAS	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	1	0	0.1250
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	0	0	0.1250
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR08	0	0	0.1250
TOXICS RELEASE INVENTORY	TRI	0	0	0.1250
ALTERNATIVE FUELING STATIONS	ALTFUELS	0	0	0.2500
BIENNIAL REPORTING SYSTEM	BRS	0	0	0.2500
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.2500
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
MINERAL RESOURCE DATA SYSTEM	MRDS	1	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	SMCRA	2	0	0.5000
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	USUMTRCA	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000

SUB-TOTAL		6	0	

Database Summary

STATE (CO) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
ENVIRONMENTAL REAL COVENANTS LIST	COVENANTS	0	0	TP/AP
ABOVEGROUND STORAGE TANK FACILITIES	AST	2	0	0.2500
HAZARDOUS WASTE SITES- GENERATOR	HWSG	0	0	0.2500
UNDERGROUND STORAGE TANK FACILITIES	UST	6	0	0.2500
COLORADO BROWNFIELD SITES	BF	0	0	0.5000
HISTORICAL SOLID WASTE LANDFILLS	HISTSWLF	0	0	0.5000
LEAKING STORAGE TANK FACILITIES	LST	7	0	0.5000
LEAKING UNDERGROUND STORAGE TANKS TRUST FUND SITES	LUSTTRUST	0	0	0.5000
SOLID WASTE FACILITIES	SWF	0	0	0.5000
VOLUNTARY CLEANUP AND REDEVELOPMENT PROGRAM SITES	VCRA	0	0	0.5000
HAZARDOUS WASTE SITES- CORRECTIVE ACTION	HWSCA	0	0	1.0000
SUPERFUND SITES	SF	0	0	1.0000

SUB-TOTAL		15	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
ASBESTOS ABATEMENT AND DEMOLITION PROJECTS	ASBESTOS	1	0	TP/AP
COLORADO DISCHARGE PERMIT SYSTEM FACILITIES	CDPS	0	0	TP/AP
URANIUM MILL TAILINGS SITES	UMTS	0	0	TP/AP
AIR POLLUTION CONTROL DIVISION PERMITTED FACILITIES	APCDP	0	0	0.1250
DRY CLEANING FACILITIES	CLEANERS	0	0	0.1250
SPILLS LISTING	SPILLS	0	0	0.1250
HAZARDOUS WASTE SITES- TREATMENT, STORAGE & DISPOSAL	HWSTSD	0	0	0.5000
METHANE GAS STUDY SITES	METHANESITES	0	0	0.5000
REGISTERED RECYCLING FACILITIES	RECYCLERS	0	0	0.5000

SUB-TOTAL		1	0	

Database Summary

LOCAL LISTING

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
WELD COUNTY SOLID WASTE FACILITIES	WCSWF	0	0	0.5000
SUB-TOTAL		0	0	

Database Summary

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR08	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR08	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	

TOTAL		23	0	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ECHOR08	0.0200	1	NS	NS	NS	NS	NS	1
FRSCO	0.0200	1	NS	NS	NS	NS	NS	1
HWCD	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	0	NS	NS	NS	NS	NS	0
ICISNPDES	0.0200	0	NS	NS	NS	NS	NS	0
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR08	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR08	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SEMSLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSEHRIPFAS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
AIRSAFS	0.1250	1	0	NS	NS	NS	NS	1
CDL	0.1250	0	0	NS	NS	NS	NS	0
ERNSCO	**0.1250**	**1**	**0**	**NS**	**NS**	**NS**	**NS**	**1**
HMIRSR08	0.1250	0	0	NS	NS	NS	NS	0
TRI	0.1250	0	0	NS	NS	NS	NS	0
ALTFUELS	0.2500	0	0	0	NS	NS	NS	0
BRS	0.2500	0	0	0	NS	NS	NS	0
FEMAUST	0.2500	0	0	0	NS	NS	NS	0
HISTPST	0.2500	0	0	0	NS	NS	NS	0
ICISCLEANERS	0.2500	0	0	0	NS	NS	NS	0
MRDS	0.2500	0	0	1	NS	NS	NS	1
MSHA	0.2500	0	0	0	NS	NS	NS	0
RCRAGR08	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
RCRANGR08	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
RCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SMCRA	0.5000	0	0	0	2	NS	NS	2
USUMTRCA	0.5000	0	0	0	0	NS	NS	0
DNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
FUSRAP	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
NMS	1.0000	0	0	0	0	0	NS	0
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		4	0	1	2	0	0	7

Database Radius Summary

STATE (CO) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
ASBESTOS	0.0200	1	NS	NS	NS	NS	NS	1
CDPS	0.0200	0	NS	NS	NS	NS	NS	0
COVENANTS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
UMTS	0.0200	0	NS	NS	NS	NS	NS	0
APCDP	0.1250	0	0	NS	NS	NS	NS	0
CLEANERS	0.1250	0	0	NS	NS	NS	NS	0
SPILLS	0.1250	0	0	NS	NS	NS	NS	0
AST	**0.2500**	**1**	**0**	**1**	**NS**	**NS**	**NS**	**2**
HWSG	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
UST	**0.2500**	**1**	**1**	**4**	**NS**	**NS**	**NS**	**6**
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
HISTSWLF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
HWSTSD	0.5000	0	0	0	0	NS	NS	0
LST	**0.5000**	**0**	**1**	**3**	**3**	**NS**	**NS**	**7**
LUSTTRUST	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
METHANESITES	0.5000	0	0	0	0	NS	NS	0
RECYCLERS	0.5000	0	0	0	0	NS	NS	0
SWF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
VCRA	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
HWSCA	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
SF	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

SUB-TOTAL		3	2	8	3	0	0	16

Database Radius Summary

LOCAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
WCSWF	0.5000	0	0	0	0	NS	NS	0
SUB-TOTAL		0	0	0	0	0	0	0

Database Radius Summary

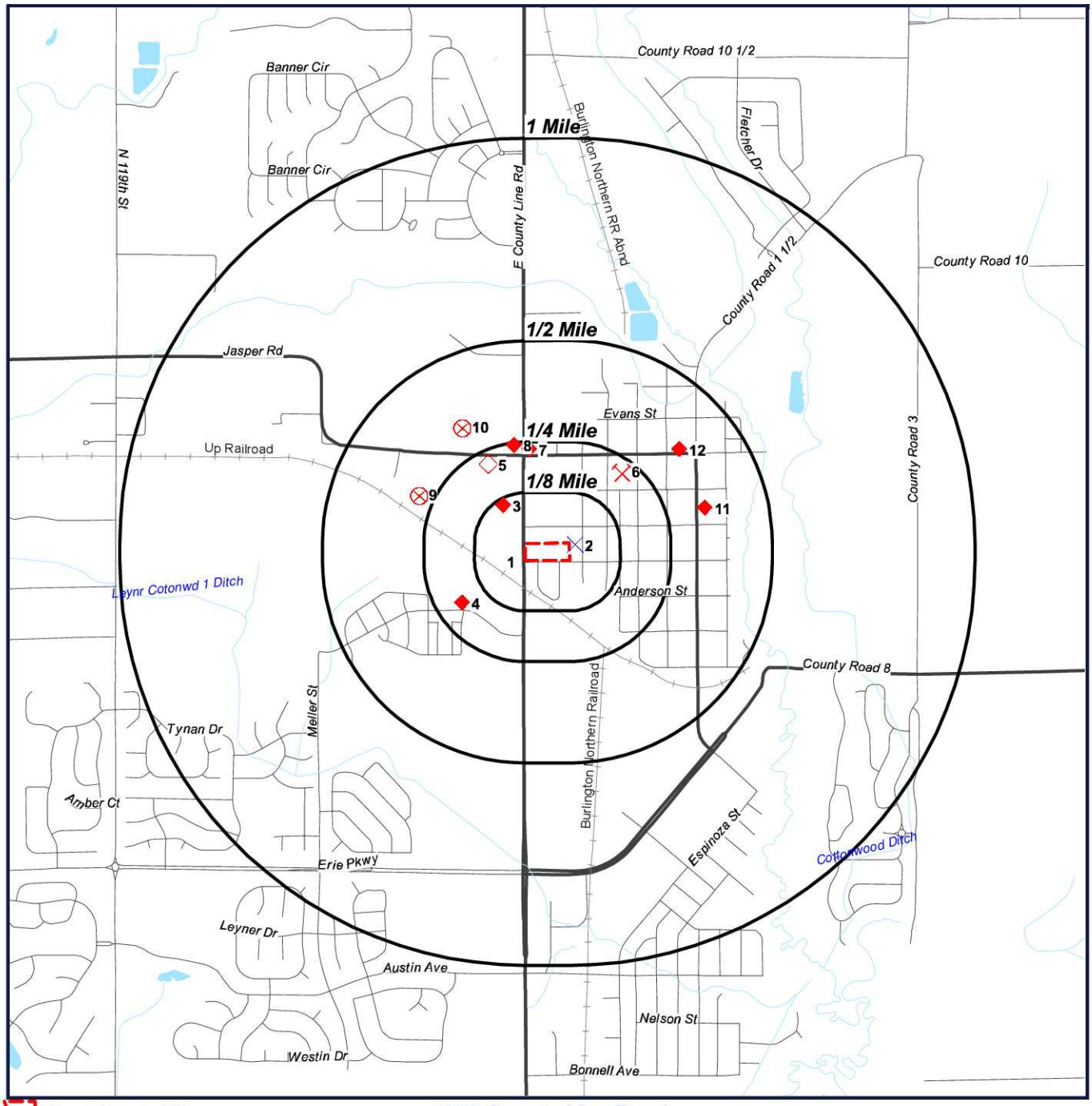
TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR08	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
LUSTR08	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		7	2	9	5	0	0	23

NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



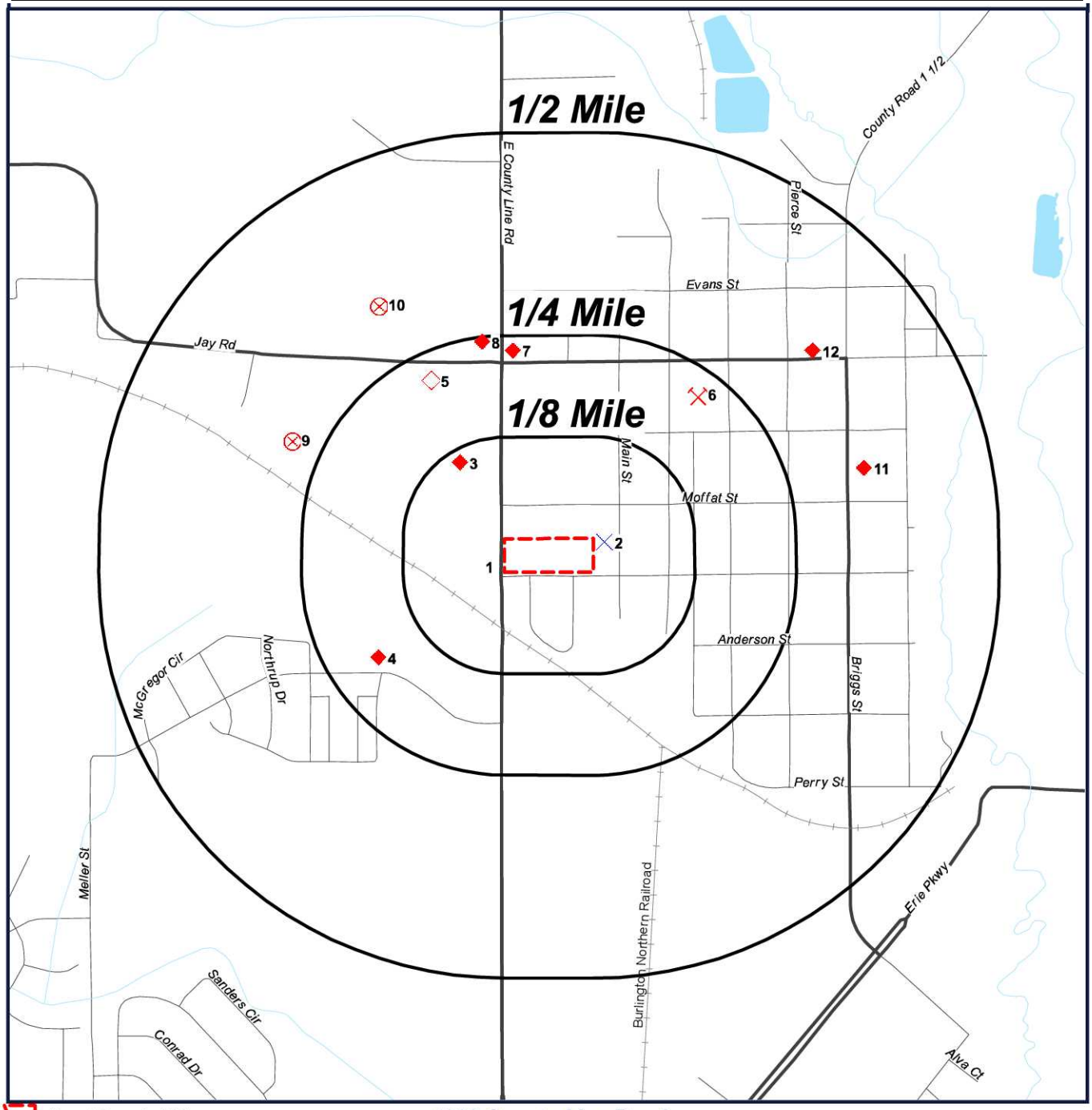
Target Property (TP)
ERNSCO
LST
UST
MRDS
SMCRA

4060 County Line Road
Erie, Colorado
80516

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Radius Map 2



Target Property (TP)
ERNSCO
LST
UST
MRDS
SMCRA

4060 County Line Road
Erie, Colorado
80516

N
W E
S

0' 500' 1000' 1500'
SCALE: 1" = 1000'

Ortho Map

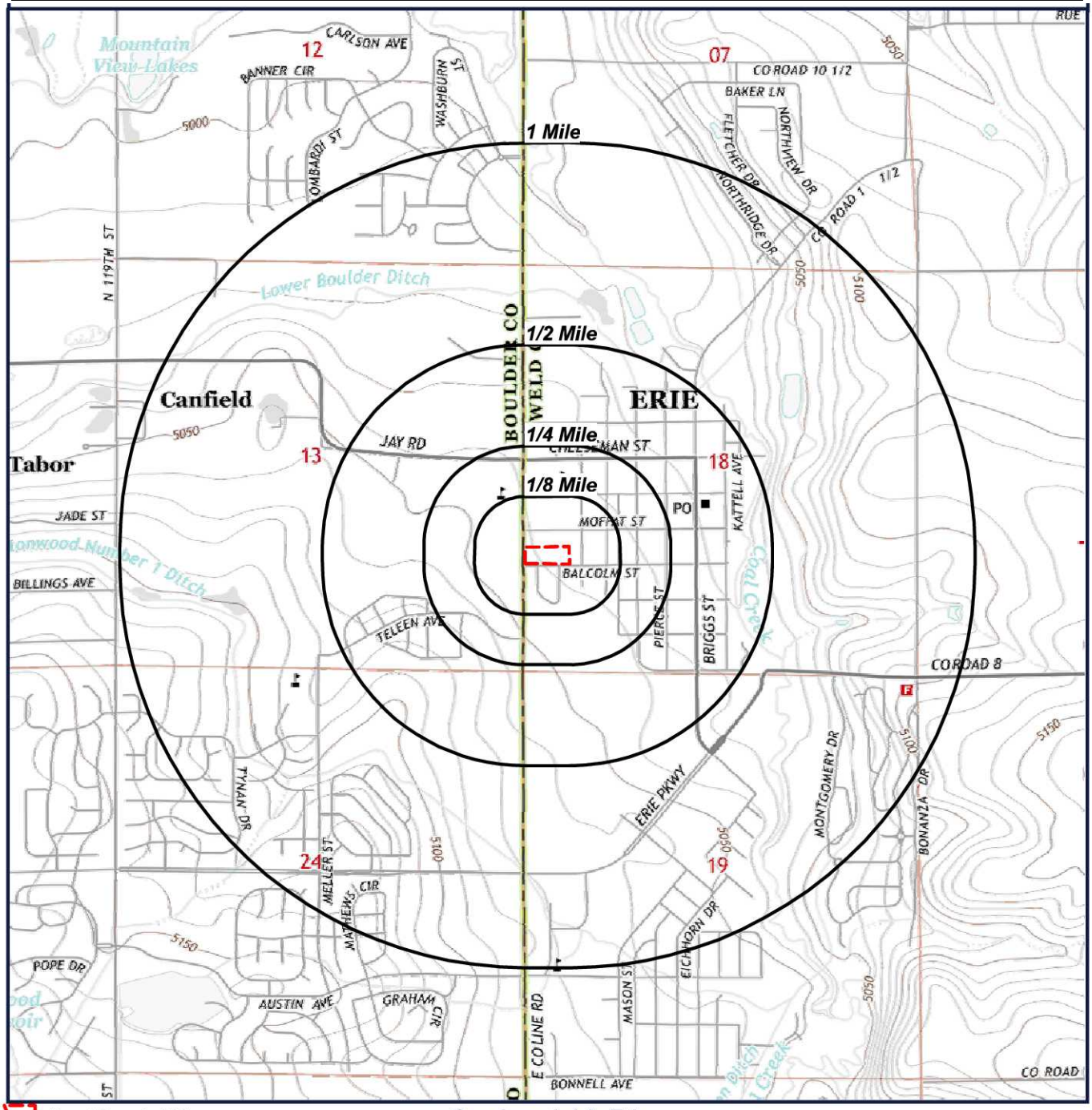
Target Property (TP)
ERNSCO
LST
UST
MRDS
SMCRA

Quadrangle(s): Erie
4060 County Line Road
Erie, Colorado
80516

N
W E
S

0' 500' 1000' 1500'
SCALE: 1" = 1000'

Topographic Map



Target Property (TP)

Quadrangle(s): Erie
Source: USGS,
07/23/2013
4060 County Line Road
Erie, Colorado
80516

N
W E
S

0' 1000' 2000' 3000'
SCALE: 1" = 2000'

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	AIRSAFS	1000059	Higher (5,035 ft.)	TP	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516	21
1	ASBESTOS	3214318878	Higher (5,035 ft.)	TP	ALPINE DEMOLITION	4060 COUNTY LINE RD., ERIE, CO	25
1	***AST***	***3520AST***	***Higher (5,035 ft.)***	***TP***	***ERIE PRECAST CONCRETE PRODUCTS***	***4060 WELD CR 1, ERIE, CO 80516***	***26***
1	ECHOR08	110038634181	Higher (5,035 ft.)	TP	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516	27
1	FRSCO	110038634181	Higher (5,035 ft.)	TP	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516	28
1	***UST***	***3520UST***	***Higher (5,035 ft.)***	***TP***	***ERIE PRECAST CONCRETE PRODUCTS***	***4060 WELD CR 1, ERIE, CO 80516***	***29***
2	***ERNSCO***	***313715***	***Higher (5,044 ft.)***	***0.014 mi. E (74 ft.)***		***444 MAIN ST, ERIE, CO***	***30***
3	***LST***	***1952***	***Lower (5,032 ft.)***	***0.108 mi. NW (570 ft.)***	***ERIE ELEMENTARY SCHOOL***	***4127 N 127TH AVE, ERIE, CO 80516***	***32***
3	***UST***	***1952UST***	***Lower (5,032 ft.)***	***0.108 mi. NW (570 ft.)***	***ERIE ELEMENTARY SCHOOL***	***4137 N 127TH AVE, ERIE, CO 80516***	***34***
4	***AST***	***15359AST***	***Higher (5,066 ft.)***	***0.188 mi. WSW (993 ft.)***	***ERIE MAINTENANCE SHOP***	***1149 TELLEEN, ERIE, CO 80516***	***35***
4	***LST***	***15359***	***Higher (5,066 ft.)***	***0.188 mi. WSW (993 ft.)***	***ERIE MAINTENANCE SHOP***	***1149 TELLEEN, ERIE, CO 80516***	***36***
5	***UST***	***6739UST***	***Higher (5,041 ft.)***	***0.214 mi. NNW (1130 ft.)***	***TRIPLE M MASONRY INC***	***12640 JAY RD, ERIE, CO 80516***	***38***
6	MRDS	10190260	Lower (5,032 ft.)	0.219 mi. NE (1156 ft.)	ERIE PIT	WELD COUNTY, ERIE, CO 80516	39
7	***LST***	***13603***	***Higher (5,041 ft.)***	***0.231 mi. N (1220 ft.)***	***KAUFMAN PROPERTY***	***785 CHEESMAN ST, ERIE, CO 80516***	***40***
7	***UST***	***13603UST***	***Higher (5,041 ft.)***	***0.231 mi. N (1220 ft.)***	***KAUFMAN PROPERTY***	***785 CHEESMAN ST, ERIE, CO 80516***	***42***
7	***UST***	***7397UST***	***Higher (5,041 ft.)***	***0.231 mi. N (1220 ft.)***	***GREAT WESTERN BANK***	***785 CHEESMAN, ERIE, CO 80516***	***43***
8	***LST***	***10335***	***Higher (5,041 ft.)***	***0.243 mi. N (1283 ft.)***	***CONOCO #6352***	***4200 NE COUNTY LINE RD, ERIE, CO 80516***	***44***
8	***UST***	***10335UST***	***Higher (5,041 ft.)***	***0.243 mi. N (1283 ft.)***	***ERIE CONOCO***	***4200 NE COUNTY LINE RD, ERIE, CO 80516***	***47***
9	SMCRA	CO000749	Higher (5,045 ft.)	0.288 mi. WNW (1521 ft.)	STEWART MINE - 95/32-02	BROOMFIELD COUNTY, BROOMFIELD, CO 80023	48
10	SMCRA	CO000712	Lower (5,032 ft.)	0.327 mi. NW (1727 ft.)	LONGS PEAK MINE - 95/33-01	BROOMFIELD COUNTY, BROOMFIELD, CO 80023	49
11	***LST***	***15165***	***Lower (5,019 ft.)***	***0.352 mi. ENE (1859 ft.)***	***US POST OFFICE***	***150 WELD ST, ERIE, CO 80516***	***51***
11	***LST***	***15249***	***Lower (5,019 ft.)***	***0.344 mi. E (1816 ft.)***	***CITY OF ERIE***	***545 BRIGGS ST, ERIE, CO 80516***	***52***

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
12	*LST*	*3857*	*Lower (5,015 ft.)*	*0.355 mi. ENE (1874 ft.)*	*ERIE CAR WASH*	*235 CHEESMAN ST, ERIE, CO 80516*	*54*

Site Summary By Database

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address
1	AIRSAFS	1000059	Higher (5,035 ft.)	TP	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516
1	ASBESTOS	3214318878	Higher (5,035 ft.)	TP	ALPINE DEMOLITION	4060 COUNTY LINE RD., ERIE, CO
1	***AST***	***3520AST***	***Higher (5,035 ft.)***	***TP***	***ERIE PRECAST CONCRETE PRODUCTS***	***4060 WELD CR 1, ERIE, CO 80516***
4	***AST***	***15359AST***	***Higher (5,066 ft.)***	***0.188 mi. WSW (993 ft.)***	***ERIE MAINTENANCE SHOP***	***1149 TELLEEN, ERIE, CO 80516***
1	ECHOR08	110038634181	Higher (5,035 ft.)	TP	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516
2	***ERNSCO***	***313715***	***Higher (5,044 ft.)***	***0.014 mi. E (74 ft.)***		***444 MAIN ST, ERIE, CO***
1	FRSCO	110038634181	Higher (5,035 ft.)	TP	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516
3	***LST***	***1952***	***Lower (5,032 ft.)***	***0.108 mi. NW (570 ft.)***	***ERIE ELEMENTARY SCHOOL***	***4127 N 127TH AVE, ERIE, CO 80516***
4	***LST***	***15359***	***Higher (5,066 ft.)***	***0.188 mi. WSW (993 ft.)***	***ERIE MAINTENANCE SHOP***	***1149 TELLEEN, ERIE, CO 80516***
7	***LST***	***13603***	***Higher (5,041 ft.)***	***0.231 mi. N (1220 ft.)***	***KAUFMAN PROPERTY***	***785 CHEESMAN ST, ERIE, CO 80516***
8	***LST***	***10335***	***Higher (5,041 ft.)***	***0.243 mi. N (1283 ft.)***	***CONOCO #6352***	***4200 NE COUNTY LINE RD, ERIE, CO 80516***
11	***LST***	***15165***	***Lower (5,019 ft.)***	***0.352 mi. ENE (1859 ft.)***	***US POST OFFICE***	***150 WELD ST, ERIE, CO 80516***
11	***LST***	***15249***	***Lower (5,019 ft.)***	***0.344 mi. E (1816 ft.)***	***CITY OF ERIE***	***545 BRIGGS ST, ERIE, CO 80516***
12	***LST***	***3857***	***Lower (5,015 ft.)***	***0.355 mi. ENE (1874 ft.)***	***ERIE CAR WASH***	***235 CHEESMAN ST, ERIE, CO 80516***
6	MRDS	10190260	Lower (5,032 ft.)	0.219 mi. NE (1156 ft.)	ERIE PIT	WELD COUNTY, ERIE, CO 80516
9	SMCRA	CO000749	Higher (5,045 ft.)	0.288 mi. WNW (1521 ft.)	STEWART MINE - 95/32-02	BROOMFIELD COUNTY, BROOMFIELD, CO 80023
10	SMCRA	CO000712	Lower (5,032 ft.)	0.327 mi. NW (1727 ft.)	LONGS PEAK MINE - 95/33-01	BROOMFIELD COUNTY, BROOMFIELD, CO 80023
1	***UST***	***3520UST***	***Higher (5,035 ft.)***	***TP***	***ERIE PRECAST CONCRETE PRODUCTS***	***4060 WELD CR 1, ERIE, CO 80516***
3	***UST***	***1952UST***	***Lower (5,032 ft.)***	***0.108 mi. NW (570 ft.)***	***ERIE ELEMENTARY SCHOOL***	***4137 N 127TH AVE, ERIE, CO 80516***
5	***UST***	***6739UST***	***Higher (5,041 ft.)***	***0.214 mi. NNW (1130 ft.)***	***TRIPLE M MASONRY INC***	***12640 JAY RD, ERIE, CO 80516***
7	***UST***	***13603UST***	***Higher (5,041 ft.)***	***0.231 mi. N (1220 ft.)***	***KAUFMAN PROPERTY***	***785 CHEESMAN ST, ERIE, CO 80516***
7	***UST***	***7397UST***	***Higher (5,041 ft.)***	***0.231 mi. N (1220 ft.)***	***GREAT WESTERN BANK***	***785 CHEESMAN, ERIE, CO 80516***

Site Summary By Database

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address
8	*UST*	*10335UST*	*Higher (5,041 ft.)*	*0.243 mi. N (1283 ft.)*	*ERIE CONOCO*	*4200 NE COUNTY LINE RD, ERIE, CO 80516*

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 5033 ft.

*NOTE: Standard environmental records are displayed in **bold**.*

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	AIRSAFS	5,035 ft.	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516	21
1	ASBESTOS	5,035 ft.	ALPINE DEMOLITION	4060 COUNTY LINE RD., ERIE, CO	25
1	***AST***	***5,035 ft.***	***ERIE PRECAST CONCRETE PRODUCTS***	***4060 WELD CR 1, ERIE, CO 80516***	***26***
1	ECHOR08	5,035 ft.	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516	27
1	FRSCO	5,035 ft.	ERIE PRE-CAST	4060 NE COUNTY LINE RD, ERIE, CO 80516	28
1	***UST***	***5,035 ft.***	***ERIE PRECAST CONCRETE PRODUCTS***	***4060 WELD CR 1, ERIE, CO 80516***	***29***
2	***ERNSCO***	***5,044 ft.***		***444 MAIN ST, ERIE, CO***	***30***
4	***AST***	***5,066 ft.***	***ERIE MAINTENANCE SHOP***	***1149 TELLEEN, ERIE, CO 80516***	***35***
4	***LST***	***5,066 ft.***	***ERIE MAINTENANCE SHOP***	***1149 TELLEEN, ERIE, CO 80516***	***36***
5	***UST***	***5,041 ft.***	***TRIPLE M MASONRY INC***	***12640 JAY RD, ERIE, CO 80516***	***38***
7	***LST***	***5,041 ft.***	***KAUFMAN PROPERTY***	***785 CHEESMAN ST, ERIE, CO 80516***	***40***
7	***UST***	***5,041 ft.***	***KAUFMAN PROPERTY***	***785 CHEESMAN ST, ERIE, CO 80516***	***42***
7	***UST***	***5,041 ft.***	***GREAT WESTERN BANK***	***785 CHEESMAN, ERIE, CO 80516***	***43***
8	***LST***	***5,041 ft.***	***CONOCO #6352***	***4200 NE COUNTY LINE RD, ERIE, CO 80516***	***44***
8	***UST***	***5,041 ft.***	***ERIE CONOCO***	***4200 NE COUNTY LINE RD, ERIE, CO 80516***	***47***
9	SMCRA	5,045 ft.	STEWART MINE - 95/32-02	BROOMFIELD COUNTY, BROOMFIELD, CO 80023	48

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
3	***LST***	***5,032 ft.***	***ERIE ELEMENTARY SCHOOL***	***4127 N 127TH AVE, ERIE, CO 80516***	***32***
3	***UST***	***5,032 ft.***	***ERIE ELEMENTARY SCHOOL***	***4137 N 127TH AVE, ERIE, CO 80516***	***34***
6	MRDS	5,032 ft.	ERIE PIT	WELD COUNTY, ERIE, CO 80516	39
10	SMCRA	5,032 ft.	LONGS PEAK MINE - 95/33-01	BROOMFIELD COUNTY, BROOMFIELD, CO 80023	49
11	***LST***	***5,019 ft.***	***US POST OFFICE***	***150 WELD ST, ERIE, CO 80516***	***51***
11	***LST***	***5,019 ft.***	***CITY OF ERIE***	***545 BRIGGS ST, ERIE, CO 80516***	***52***
12	***LST***	***5,015 ft.***	***ERIE CAR WASH***	***235 CHEESMAN ST, ERIE, CO 80516***	***54***

Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 5,035 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **1000059**
PLANT ID: **1000059**
NAME: **ERIE PRE-CAST**
ADDRESS: **4060 NE COUNTY LINE RD**
ERIE, CO 80516
CLASSIFICATION: **POTENTIAL UNCONTROLLED EMISSIONS <100 TONS/YEAR**
OPERATION STATUS: **PERMANENTLY CLOSED**
STATE COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
FACILITY TYPE: **PRIVATELY OWNED/OPERATED**
CURRENT HIGH PRIORITY VIOLATOR: **NOT REPORTED**
SIC DESCRIPTION: **ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING CONCRETE PRODUCTS, EXCEPT BLOCK AND BRICK, FROM A COMBINATION OF CEMENT AND AGGREGATE.**

ENFORCEMENT ACTIONS

NO ENFORCEMENT ACTIONS REPORTED

AIR PROGRAM

AIR PROGRAM STATUS: **PERMANENTLY CLOSED**
EPA COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
POLLUTANT COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
POLLUTANT: **TOTAL PARTICULATE MATTER**

HISTORICAL COMPLIANCE AIR PROGRAM LEVEL

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0803**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1104**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1003**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1004**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0901**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**

COMPLIANCE DATE (YYYQ): **1002**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1301**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1103**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0904**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0703**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0801**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0804**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1403**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0902**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0802**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0701**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1302**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1204**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0704**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1304**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1101**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1402**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1202**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0702**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1203**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1102**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0903**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1001**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1401**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1303**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1201**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0604**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

Back to Report Summary

Asbestos Abatement and Demolition Projects (ASBESTOS)

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 5,035 ft. (Higher than TP)

SITE INFORMATION

GEOSEARCH ID: **3214318878**

CONTRACTOR NAME: **ALPINE DEMOLITION**

ADDRESS: **4060 COUNTY LINE RD.**
ERIE, CO

PROJECT TYPE: **DEMOLITION PROJECT**

SITE DETAILS

PERMIT NUMBER: **14WE5464D**

PERMIT BEGIN DATE: **10/03/14**

SQUARE FEET: **NOT REPORTED**

Back to Report Summary

Aboveground Storage Tank Facilities (AST)

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 5,035 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **3520**

NAME: **ERIE PRECAST CONCRETE PRODUCTS**

ADDRESS: **4060 WELD CR 1**
ERIE, CO 80516

OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **2115**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
9849	**3520-1**	**AST**	**DIESEL**	**500**	**PERMANENTLY CLOSED**
9850	**3520-2**	**AST**	**DIESEL**	**500**	**PERMANENTLY CLOSED**

Back to Report Summary

Enforcement and Compliance History Information (ECHOR08)

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 5,035 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID: **110038634181**
REGISTRY ID: **110038634181**
NAME: **ERIE PRE-CAST**
ADDRESS: **4060 NE COUNTY LINE RD**
ERIE, CO 80516
COUNTY: **WELD**
FACILITY LINK: *Facility Detail Report*

Back to Report Summary

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 5,035 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110038634181**

NAME: **ERIE PRE-CAST**

LOCATION ADDRESS: **4060 NE COUNTY LINE RD**
ERIE, CO 80516

COUNTY: **WELD**

EPA REGION: **08**

FEDERAL FACILITY:

TRIBAL LAND:

ALTERNATIVE NAME/S:

ERIE PRE-CAST

PROGRAM/S LISTED FOR THIS FACILITY

AIRS/AFS - AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIRS FACILITY SYSTEM

AIR - AIR

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

3272 - CONCRETE PRODUCTS, EXCEPT BLOCK AND BRICK

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

327390 - OTHER CONCRETE PRODUCT MANUFACTURING.

327390 - OTHER CONCRETE PRODUCT MANUFACTURING.

327390 - OTHER CONCRETE PRODUCT MANUFACTURING.

327390 - OTHER CONCRETE PRODUCT MANUFACTURING.

Back to Report Summary

Underground Storage Tank Facilities (UST)

MAP ID# 1

Distance from Property: 0.000 mi. (0 ft.) X
Elevation: 5,035 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **3520**

NAME: **ERIE PRECAST CONCRETE PRODUCTS**

ADDRESS: **4060 WELD CR 1**
ERIE, CO 80516

OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **2115**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
9851	**3520-3**	**UST**	**GASOLINE**		**PERMANENTLY CLOSED**

Back to Report Summary

MAP ID# 2

Distance from Property: 0.014 mi. (74 ft.) E
Elevation: 5,044 ft. (Higher than TP)

GSID#: **313715**
NRC REPORT #: **313715**
INCIDENT LOCATION:
INCIDENT ADDRESS: **444 MAIN ST**
ERIE, CO
INCIDENT COUNTY: **WELD**

INCIDENT INFORMATION

NRC REPORT #: **313715**
DESCRIPTION OF INCIDENT: **DUMPING CHEMICALS DOWN DRAIN TO SEWER/HAS BEEN GOING ON FOR YEARSGROUND CONTAMINATION POSSIBLE/NO SANITARY FACILITIES ON SITE**
TYPE OF INCIDENT: **UNKNOWN SHEEN**
CAUSE: **DUMPING**
DATE/TIME: **11/10/1995**
DISCOVERED/OCCURED/PLANNED: **DISCOVERED**
POTENTIAL FLAG:

REPORT RECEIPT AND SUSPECTED RESPONSIBLE PARTY INFORMATION

NRC REPORT #: **313715**
DATE/TIME RECEIVED: **11/10/1995**
DATE/TIME COMPLETE: **11/10/1995**
CALL TYPE: **INCIDENT**
SOURCE: **UNAVAILABLE**
RESPONSIBLE COMPANY: **ERIE PRECAST CONCREATE PR**
ADDRESS:
ERIE CO
RESPONSIBLE COMPANY ORGANIZATION TYPE: **PRIVATE ENTERPRISE**

INCIDENT DETAILS

NRC REPORT #: **313715**
FIRE INVOLVED: **NO**
EVACUATION RADIUS:
ANY INJURIES: **UNKNOWN**
ANY EVACUATIONS: **NO**
ANY FATALITIES: **UNKNOWN**
ANY DAMAGES: **NO**
DAMAGE AMOUNT:
MEDIUM DESCRIPTION: **WATER**
ADDITIONAL MEDIUM INFO: **SEWER**
BODY OF WATER:
TRIBUTARY OF:
RELEASE SECURED:
ESTIMATED DURATION OF RELEASE:
RELEASE RATE:
REMEDIAL ACTION: **NONE/POSSIBLE ILLEGAL WORKERS PRESENT**
STATE AGENCY ON SCENE:

STATE AGENCY REPORT #:
OTHER AGENCY NOTIFIED:
WATER SUPPLY CONTAMINATED:
COMMUNITY IMPACT:
ADDITIONAL INFO:
STATE AGENCY NOTIFIED:
FEDERAL AGENCY NOTIFIED:
OFFSHORE:

INFORMATION SPECIFIC TO EACH TYPE OF INCIDENT
- NO INFORMATION REPORTED -

MATERIALS INVOLVED
NRC REPORT #: **313715**
CHRIS CODE: **UNK**
CAS #:
MATERIAL RELEASED/AMOUNT: **UNKNOWN MATERIAL / UNKNOWN AMOUNT**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **UNKNOWN AMOUNT**

NRC REPORT #: **313715**
CHRIS CODE: **NCC**
CAS #:
MATERIAL RELEASED/AMOUNT: **LIME / UNKNOWN AMOUNT**
IF REACHED WATER: **YES**
AMOUNT IN WATER: **UNKNOWN AMOUNT**

OTHER MATERIALS INVOLVED
- NO OTHER MATERIALS INVOLVED -

TRAINS DETAILS
- NO TRAIN DETAILS REPORTED -

TRAIN DERAILED UNITS
- NO TRAIN DERAILED UNITS REPORTED -

VESSEL DETAILS
- NO VESSEL DETAILS REPORTED -

MOBILE DETAILS
- NO MOBILE DETAILS REPORTED -

Back to Report Summary

MAP ID# 3

Distance from Property: 0.108 mi. (570 ft.) NW
Elevation: 5,032 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: **1952**
SITE NAME: **ERIE ELEMENTARY SCHOOL**
ADDRESS: **4127 N 127TH AVE**
ERIE, CO 80516
COUNTY: **BOULDER**
CONTACT: **TECHNICAL ASSISTANCE LINE**
PHONE: **303-318-8547**
EMAIL: **CDLE_OPS_PUBLIC_RECORDS_CENTER@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
5954	**1952**	**CLOSED**	**7/23/1997**			**TIER I**	**6/4/1998**

OPUS LINK: CLICK HERE

UST INFORMATION

FACILITY ID: **1952**
EVENT ID: **5954**
FACILITY NAME: **ERIE ELEMENTARY SCHOOL**
ADDRESS: **4137 N 127TH AVE**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **SAINT VRAIN VALLEY SCHOOLS RE-1J**
OWNER ID: **4931**
TANK ID: **5538**
TANK TAG: **1952-1**
CAPACITY (Gallons): **1000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **9/9/1997**

FACILITY ID: **1952**
EVENT ID: **5954**
FACILITY NAME: **ERIE ELEMENTARY SCHOOL**
ADDRESS: **4137 N 127TH AVE**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **SAINT VRAIN VALLEY SCHOOLS RE-1J**
OWNER ID: **4931**
TANK ID: **5539**
TANK TAG: **1952-2**
CAPACITY (Gallons): **1000**
PRODUCT: **DIESEL**

TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **9/9/1997**

Back to Report Summary

Underground Storage Tank Facilities (UST)

MAP ID# 3

Distance from Property: 0.108 mi. (570 ft.) NW
Elevation: 5,032 ft. (Lower than TP)

FACILITY INFORMATION

FACILITY ID: **1952**

NAME: **ERIE ELEMENTARY SCHOOL**

ADDRESS: **4137 N 127TH AVE**
ERIE, CO 80516

OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **4931**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
5538	**1952-1**	**UST**	**GASOLINE**	**1000**	**PERMANENTLY CLOSED**
5539	**1952-2**	**UST**	**DIESEL**	**1000**	**PERMANENTLY CLOSED**

Back to Report Summary

Aboveground Storage Tank Facilities (AST)

MAP ID# 4

Distance from Property: 0.188 mi. (993 ft.) WSW
Elevation: 5,066 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **15359**

NAME: **ERIE MAINTENANCE SHOP**

ADDRESS: **1149 TELLEEN**
ERIE, CO 80516

OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **7753**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
33553	**15359-1**	**AST**	**DIESEL/GASOLINE (MULTI-COMP)**	**6000**	**PERMANENTLY CLOSED**
33554	**15359-2**	**AST**	**UNKNOWN**	**0**	**PERMANENTLY CLOSED**

Back to Report Summary

MAP ID# 4

Distance from Property: 0.188 mi. (993 ft.) WSW
Elevation: 5,066 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID: **15359**
SITE NAME: **ERIE MAINTENANCE SHOP**
ADDRESS: **1149 TELLEEN**
ERIE, CO 80516
COUNTY: **BOULDER**
CONTACT: **TECHNICAL ASSISTANCE LINE**
PHONE: **303-318-8547**
EMAIL: **CDLE_OPS_PUBLIC_RECORDS_CENTER@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
11281	**15359**	**CLOSED**	**10/21/2010**			**TIER I**	**11/2/2010**
OPUS LINK: CLICK HERE							
11281	**15359**	**CLOSED**	**10/26/2010**			**TIER I**	**11/2/2010**
OPUS LINK: CLICK HERE							

AST INFORMATION

FACILITY ID: **15359**
EVENT ID: **11281**
FACILITY NAME: **ERIE MAINTENANCE SHOP**
ADDRESS: **1149 TELLEEN**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **TOWN OF ERIE**
OWNER ID: **7753**
TANK ID: **33553**
TANK TAG: **15359-1**
CAPACITY (Gallons): **6000**
PRODUCT: **DIESEL/GASOLINE (MULTI-COMP)**
TANK TYPE: **AST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **10/26/2010**

FACILITY ID: **15359**
EVENT ID: **11281**
FACILITY NAME: **ERIE MAINTENANCE SHOP**
ADDRESS: **1149 TELLEEN**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **TOWN OF ERIE**
OWNER ID: **7753**
TANK ID: **33554**
TANK TAG: **15359-2**

CAPACITY (Gallons): **0**
PRODUCT: **UNKNOWN**
TANK TYPE: **AST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **10/26/2010**

Back to Report Summary

Underground Storage Tank Facilities (UST)

MAP ID# 5

Distance from Property: 0.214 mi. (1,130 ft.) NNW
Elevation: 5,041 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **6739**
NAME: **TRIPLE M MASONRY INC**
ADDRESS: **12640 JAY RD**
ERIE, CO 80516
OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **5391**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
17938	**6739-1**	**UST**	**GASOLINE**	**2000**	**PERMANENTLY CLOSED**
17939	**6739-2**	**UST**	**DIESEL**	**550**	**PERMANENTLY CLOSED**

Back to Report Summary

MAP ID# 6

Distance from Property: 0.219 mi. (1,156 ft.) NE
Elevation: 5,032 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **10190260**
DEP ID: **10190260**
MINE NAME: **ERIE PIT**
ADDRESS: **WELD COUNTY**
ERIE, CO 80516
DEVELOPMENT STATUS: **PRODUCER**
MINERAL RESOURCE DATA SYSTEM (MRDS): **CLICK HERE**

COMMODITY DETAILS

COMMODITY: **SAND AND GRAVEL, CONS**
COMMODITY TYPE: **NON-METALLIC**
COMMODITY GROUP: **SAND AND GRAVEL**
IMPORTANCE: **PRIMARY**

MATERIAL DETAILS

NO MATERIAL DETAILS REPORTED

NAME DETAILS

SITE NAME: **BAILEY GRAVEL PIT (MAS 0080130090)**
STATUS: **PREVIOUS**

SITE NAME: **ERIE PIT**
STATUS: **CURRENT**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.231 mi. (1,220 ft.) N
Elevation: 5,041 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID: **13603**
SITE NAME: **KAUFMAN PROPERTY**
ADDRESS: **785 CHEESMAN ST**
ERIE, CO 80516
COUNTY: **BOULDER**
CONTACT: **TECHNICAL ASSISTANCE LINE**
PHONE: **303-318-8547**
EMAIL: **CDLE_OPS_PUBLIC_RECORDS_CENTER@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
363	**13603**	**CLOSED**				**TIER I**	**11/24/1995**

OPUS LINK: CLICK HERE

UST INFORMATION

FACILITY ID: **13603**
EVENT ID: **363**
FACILITY NAME: **KAUFMAN PROPERTY**
ADDRESS: **785 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **JOAN KAUFMAN**
OWNER ID: **17173**
TANK ID: **48669**
TANK TAG: **13603-1**
CAPACITY (Gallons): **3520**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **11/24/1995**

FACILITY ID: **13603**
EVENT ID: **363**
FACILITY NAME: **KAUFMAN PROPERTY**
ADDRESS: **785 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **JOAN KAUFMAN**
OWNER ID: **17173**
TANK ID: **48670**
TANK TAG: **13603-2**
CAPACITY (Gallons): **2640**
PRODUCT: **GASOLINE**

TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **11/24/1995**

Back to Report Summary

Underground Storage Tank Facilities (UST)

MAP ID# 7

Distance from Property: 0.231 mi. (1,220 ft.) N
Elevation: 5,041 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **13603**
NAME: **KAUFMAN PROPERTY**
ADDRESS: **785 CHEESMAN ST**
ERIE, CO 80516
OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID:

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
	13603-1	**UST**	**GASOLINE**	**3520**	**PERMANENTLY CLOSED**
	13603-2	**UST**	**GASOLINE**	**2640**	**PERMANENTLY CLOSED**

Back to Report Summary

Underground Storage Tank Facilities (UST)

MAP ID# 7

Distance from Property: 0.231 mi. (1,220 ft.) N
Elevation: 5,041 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **7397**
NAME: **GREAT WESTERN BANK**
ADDRESS: **785 CHEESMAN**
ERIE, CO 80516
OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **6116**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
19516	**7397-1**	**UST**	**GASOLINE**	**2640**	**PERMANENTLY CLOSED**
19517	**7397-2**	**UST**	**GASOLINE**	**3520**	**PERMANENTLY CLOSED**
19518	**7397-3**	**UST**	**UNKNOWN**	**500**	**PERMANENTLY CLOSED**
19519	**7397-4**	**UST**	**UNKNOWN**	**500**	**PERMANENTLY CLOSED**

Back to Report Summary

MAP ID# 8

Distance from Property: 0.243 mi. (1,283 ft.) N
Elevation: 5,041 ft. (Higher than TP)

FACILITY INFORMATION

UNIQUE ID: **10335**
SITE NAME: **CONOCO #6352**
ADDRESS: **4200 NE COUNTY LINE RD**
ERIE, CO 80516
COUNTY: **BOULDER**
CONTACT: **TECHNICAL ASSISTANCE LINE**
PHONE: **303-318-8547**
EMAIL: **CDLE_OPS_PUBLIC_RECORDS_CENTER@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
3064	**10335**	**CLOSED**	**7/15/1994**			**TIER I**	**8/23/1994**

OPUS LINK: **CLICK HERE**

UST INFORMATION

FACILITY ID: **10335**
EVENT ID: **3064**
FACILITY NAME: **ERIE CONOCO**
ADDRESS: **4200 NE COUNTY LINE RD**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **G & S SERVICES CO**
OWNER ID: **2420**
TANK ID: **27982**
TANK TAG: **10335-1**
CAPACITY (Gallons): **10000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **7/15/1994**

FACILITY ID: **10335**
EVENT ID: **3064**
FACILITY NAME: **ERIE CONOCO**
ADDRESS: **4200 NE COUNTY LINE RD**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **G & S SERVICES CO**
OWNER ID: **2420**
TANK ID: **27983**
TANK TAG: **10335-2**
CAPACITY (Gallons): **8000**
PRODUCT: **GASOLINE**

TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **7/15/1994**

FACILITY ID: **10335**
EVENT ID: **3064**
FACILITY NAME: **ERIE CONOCO**
ADDRESS: **4200 NE COUNTY LINE RD**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **G & S SERVICES CO**
OWNER ID: **2420**
TANK ID: **27984**
TANK TAG: **10335-3**
CAPACITY (Gallons): **12000**
PRODUCT: **UNLEADED REGULAR (RUL)**
TANK TYPE: **UST**
TANK STATUS: **CURRENTLY IN USE**
LOG DATE: **7/15/1994**

FACILITY ID: **10335**
EVENT ID: **3064**
FACILITY NAME: **ERIE CONOCO**
ADDRESS: **4200 NE COUNTY LINE RD**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **G & S SERVICES CO**
OWNER ID: **2420**
TANK ID: **27985**
TANK TAG: **10335-4**
CAPACITY (Gallons): **12000**
PRODUCT: **UNLEADED PREMIUM (PUL)**
TANK TYPE: **UST**
TANK STATUS: **CURRENTLY IN USE**
LOG DATE: **7/15/1994**

FACILITY ID: **10335**
EVENT ID: **3064**
FACILITY NAME: **ERIE CONOCO**
ADDRESS: **4200 NE COUNTY LINE RD**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **G & S SERVICES CO**
OWNER ID: **2420**

Leaking Storage Tank Facilities (LST)

TANK ID: **27986**
TANK TAG: **10335-5**
CAPACITY (Gallons): **12000**
PRODUCT: **DIESEL**
TANK TYPE: **UST**
TANK STATUS: **CURRENTLY IN USE**
LOG DATE: **7/15/1994**

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MAP ID# 8

Distance from Property: 0.243 mi. (1,283 ft.) N
Elevation: 5,041 ft. (Higher than TP)

FACILITY INFORMATION

FACILITY ID: **10335**
NAME: **ERIE CONOCO**
ADDRESS: **4200 NE COUNTY LINE RD**
ERIE, CO 80516
OPUS LINK: **CLICK HERE**

OWNER INFORMATION

OWNER ID: **2420**

TANK INFORMATION

TANK ID:	TANK TAG:	TANK TYPE:	TANK PRODUCT:	TANK CAPACITY:	TANK STATUS:
27982	**10335-1**	**UST**	**GASOLINE**	**10000**	**PERMANENTLY CLOSED**
27983	**10335-2**	**UST**	**GASOLINE**	**8000**	**PERMANENTLY CLOSED**
27984	**10335-3**	**UST**	**GASOLINE - UNLEADED REGULAR (RUL)**	**12000**	**CURRENTLY IN USE**
27985	**10335-4**	**UST**	**GASOLINE - PREMIUM (PUL)**	**12000**	**CURRENTLY IN USE**
27986	**10335-5**	**UST**	**DIESEL**	**12000**	**CURRENTLY IN USE**

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MAP ID# 9

Distance from Property: 0.288 mi. (1,521 ft.) WNW
Elevation: 5,045 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **CO000749**

AMLIS KEY: **CO000749**

PROBLEM AREA NUMBER: **749**

PROBLEM AREA NAME: **STEWART MINE - 95/32-02**

ADDRESS: **BROOMFIELD COUNTY**

BROOMFIELD, CO 80023

COUNTY: **BROOMFIELD**

PLAN UNIT NUMBER: **156**

PLAN UNIT NAME: **ERIE**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **SGA**
PROBLEM TYPE: **VO**
PROBLEM PRIORITY: **2**
MINING TYPE: **U**
ORE TYPES: **NOT REPORTED**
DATE PREPARED: **2/26/1992 0:00**
DATE REVISED: **4/8/2020 8:47**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **1**
COMPLETED COSTS: **9775**
COMPLETED GPRA ACRES: **0.1**
COMPLETED METRIC UNITS: **1**

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MAP ID# 10

Distance from Property: 0.327 mi. (1,727 ft.) NW
Elevation: 5,032 ft. (Lower than TP)

FACILITY INFORMATION

GEOSEARCH ID: **CO000712**

AMLIS KEY: **CO000712**

PROBLEM AREA NUMBER: **712**

PROBLEM AREA NAME: **LONGS PEAK MINE - 95/33-01**

ADDRESS: **BROOMFIELD COUNTY**

BROOMFIELD, CO 80023

COUNTY: **BROOMFIELD**

PLAN UNIT NUMBER: **157**

PLAN UNIT NAME: **BOULDER CREEK**

FACILITY DETAIL(S)

FUNDING SOURCE/PROGRAM: **SEA**
PROBLEM TYPE: **S**
PROBLEM PRIORITY: **1**
MINING TYPE: **U**
ORE TYPES: **NOT REPORTED**
DATE PREPARED: **6/10/2016 0:00**
DATE REVISED: **4/1/2020 12:37**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **0.25**
COMPLETED COSTS: **4310**
COMPLETED GPRA ACRES: **0.25**
COMPLETED METRIC UNITS: **0.1**

FUNDING SOURCE/PROGRAM: **EMA**
PROBLEM TYPE: **S**
PROBLEM PRIORITY: **1**

Surface Mining Control and Reclamation Act Sites (SMCRA)

MINING TYPE: **U**
ORE TYPES: **NOT REPORTED**
DATE PREPARED: **6/10/2016 0:00**
DATE REVISED: **8/2/2017 18:06**
PRIVATE OWNER %: **100**
STATE OWNER %: **0**
OTHER FEDERAL OWNER %: **0**
PARK SERVICE OWNER %: **0**
FOREST SERVICE OWNER %: **0**
INDIAN OWNER %: **0**
BLM OWNER %: **0**
UNFUNDED STANDARD UNITS: **0**
UNFUNDED COSTS: **0**
UNFUNDED GPRA ACRES: **0**
UNFUNDED METRIC UNITS: **0**
FUNDED STANDARD UNITS: **0**
FUNDED COSTS: **0**
FUNDED GPRA ACRES: **0**
FUNDED METRIC UNITS: **0**
COMPLETED STANDARD UNITS: **0.25**
COMPLETED COSTS: **4310**
COMPLETED GPRA ACRES: **0.25**
COMPLETED METRIC UNITS: **0.1**

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Leaking Storage Tank Facilities (LST)

MAP ID# 11

Distance from Property: 0.352 mi. (1,859 ft.) ENE
Elevation: 5,019 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: **15165**
SITE NAME: **US POST OFFICE**
ADDRESS: **150 WELD ST**
ERIE, CO 80516
COUNTY: **BOULDER**
CONTACT: **TIM KELLEY**
PHONE: **303-318-8544**
EMAIL: **TIM.KELLEY@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
8163	**15165**	**CLOSED**	**4/13/2000**			**OTHER/UNKNOWN**	**5/16/2001**

OPUS LINK: **CLICK HERE**

Back to Report Summary

MAP ID# 11

Distance from Property: 0.344 mi. (1,816 ft.) E
Elevation: 5,019 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: **15249**
SITE NAME: **CITY OF ERIE**
ADDRESS: **545 BRIGGS ST**
ERIE, CO 80516
COUNTY: **BOULDER**
CONTACT: **TECHNICAL ASSISTANCE LINE**
PHONE: **303-318-8547**
EMAIL: **CDLE_OPS_PUBLIC_RECORDS_CENTER@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
8325	**15249**	**CLOSED**				**TIER I**	**6/18/2002**

OPUS LINK: CLICK HERE

UST INFORMATION

FACILITY ID: **15249**
EVENT ID: **8325**
FACILITY NAME: **METZGER PROPERTY**
ADDRESS: **545 BRIGGS ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **TOWN OF ERIE**
OWNER ID: **7753**
TANK ID: **33346**
TANK TAG: **15249-1**
CAPACITY (Gallons): **1000**
PRODUCT: **HEATING OIL**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **9/5/2000**

FACILITY ID: **15249**
EVENT ID: **8325**
FACILITY NAME: **METZGER PROPERTY**
ADDRESS: **545 BRIGGS ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **TOWN OF ERIE**
OWNER ID: **7753**
TANK ID: **33347**
TANK TAG: **15249-2**
CAPACITY (Gallons): **1000**
PRODUCT: **HEATING OIL**

TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **9/5/2000**

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MAP ID# 12

Distance from Property: 0.355 mi. (1,874 ft.) ENE
Elevation: 5,015 ft. (Lower than TP)

FACILITY INFORMATION

UNIQUE ID: **3857**
SITE NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**
ERIE, CO 80516
COUNTY: **WELD**
CONTACT: **TOM FOX**
PHONE: **303-318-8535**
EMAIL: **TOM.FOX@STATE.CO.US**

LEAKING INFORMATION

EVENT ID:	FACILITY ID:	STATUS:	RELEASE DATE:	RELEASE SOURCE:	RELEASE CAUSE:	TYPE:	CLOSURE DATE:
4035	**3857**	**CLOSED**	**10/7/1992**			**TIER IV**	**8/2/2016**
OPUS LINK: CLICK HERE							
9167	**3857**	**CLOSED**	**7/31/2002**			**OTHER/UNKNOWN**	**5/28/2004**
OPUS LINK: CLICK HERE							
9167	**3857**	**CLOSED**	**3/17/2003**			**OTHER/UNKNOWN**	**5/28/2004**
OPUS LINK: CLICK HERE							

UST INFORMATION

FACILITY ID: **3857**
EVENT ID: **4035**
FACILITY NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **CHARLES HEPP**
OWNER ID: **1869**
TANK ID: **10869**
TANK TAG: **3857-1**
CAPACITY (Gallons): **8000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **10/7/1992**

FACILITY ID: **3857**
EVENT ID: **9167**
FACILITY NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **CHARLES HEPP**
OWNER ID: **1869**

TANK ID: **10869**
TANK TAG: **3857-1**
CAPACITY (Gallons): **8000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **3/21/2003**

FACILITY ID: **3857**
EVENT ID: **4035**
FACILITY NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **CHARLES HEPP**
OWNER ID: **1869**
TANK ID: **10870**
TANK TAG: **3857-2**
CAPACITY (Gallons): **8000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **10/7/1992**

FACILITY ID: **3857**
EVENT ID: **9167**
FACILITY NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **CHARLES HEPP**
OWNER ID: **1869**
TANK ID: **10870**
TANK TAG: **3857-2**
CAPACITY (Gallons): **8000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **3/21/2003**

FACILITY ID: **3857**
EVENT ID: **4035**
FACILITY NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**

CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **CHARLES HEPP**
OWNER ID: **1869**
TANK ID: **10871**
TANK TAG: **3857-3**
CAPACITY (Gallons): **4000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **10/7/1992**

FACILITY ID: **3857**
EVENT ID: **9167**
FACILITY NAME: **ERIE CAR WASH**
ADDRESS: **235 CHEESMAN ST**
CITY: **ERIE**
ZIPCODE: **80516**
FULL NAME: **CHARLES HEPP**
OWNER ID: **1869**
TANK ID: **10871**
TANK TAG: **3857-3**
CAPACITY (Gallons): **4000**
PRODUCT: **GASOLINE**
TANK TYPE: **UST**
TANK STATUS: **PERMANENTLY CLOSED**
LOG DATE: **3/21/2003**

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance. Enforcement and Compliance History Online (ECHO) Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014, the EPA retired this system for Clean Air Act stationary sources.

ALTFUELS Alternative Fueling Stations

VERSION DATE: 10/28/20

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

BF Brownfields Management System

VERSION DATE: 01/11/21

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database includes tribal brownfield sites.

BRS Biennial Reporting System

VERSION DATE: 12/31/17

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 06/17/20

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DNPL Delisted National Priorities List

VERSION DATE: 04/26/21

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 04/27/21

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. The data displays remedy component information for Superfund decision documents issued in fiscal years 1982-2017, and it includes final and deleted NPL sites as well as sites with a Superfund Alternative Approach (SAA) agreement in place. The only sites included that are not on the NPL, proposed for NPL, or removed from proposed NPL, are those with an SAA Agreement in place. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the

potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ECHOR08 Enforcement and Compliance History Information

VERSION DATE: 11/28/20

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSCO Emergency Response Notification System

VERSION DATE: 06/28/21

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FEMAUST FEMA Owned Storage Tanks

VERSION DATE: 12/01/16

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

FRSCO Facility Registry System

VERSION DATE: 03/02/21

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

FUDS Formerly Used Defense Sites

VERSION DATE: 12/31/18

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not

all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

FUSRAP Formerly Utilized Sites Remedial Action Program

VERSION DATE: 03/04/17

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

HMIRSR08 Hazardous Materials Incident Reporting System

VERSION DATE: 03/24/21

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

HWCD Hazardous Waste Compliance Docket Facilities

VERSION DATE: 10/29/20

This list of the Federal Agency Hazardous Waste Compliance Docket Facilities is maintained by the United States Environmental Protection Agency (EPA). According to the EPA, Section 120(c) of CERCLA requires EPA to establish a listing, known as the Federal Facility Hazardous Waste Compliance Docket (Docket), of Federal facilities which are managing or have managed hazardous waste; or have had a release of hazardous waste. Thus, the Docket identifies all Federal facilities that must be evaluated to determine whether they pose a risk to human health and the environment and it makes this information available to the public. In order for the Docket to remain current and accurate it requires periodic updating.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/19/20

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISCLEANERS Integrated Compliance Information System Drycleaners

VERSION DATE: 09/19/20

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S. Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. The following Primary SIC Codes are included in this data: 7211, 7212, 7213, 7215, 7216, 7217, 7218, and/or 7219; the following Primary NAICS Codes are included in this data: 812320, 812331, and/or 812332.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 04/26/20

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 06/29/17

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps. A few updates last occurred 2015 and early 2016 for select mine site area/s.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 08/07/20

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 03/22/21

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 03/22/21

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

NMS Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline,

heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

NPDESR08 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the ICIS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

NPL National Priorities List

VERSION DATE: 04/26/21

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An “open dump” is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

PADS PCB Activity Database System

VERSION DATE: 11/19/20

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCB) who are required to notify the U.S. Environmental Protection Agency of such activities.

PCSR08 Permit Compliance System

VERSION DATE: 08/01/12

The historic Permit Compliance System tracked enforcement status and permit compliance of facilities controlled

by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act. This database includes permitted facilities located in EPA Region 8 states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming. This system has since been modernized by United States Environmental Protection Agency and is now integrated into the Integrated Compliance Information System (ICIS). Please refer to the ICIS database as the current source for this data.

PNPL Proposed National Priorities List

VERSION DATE: 04/26/21

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 03/22/21

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

RCRAGR08 Resource Conservation & Recovery Act - Generator

VERSION DATE: 03/22/21

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 8 includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

RCRANGR08 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 03/22/21

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA

Region 8 includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

RCRASC RCRA Sites with Controls

VERSION DATE: 05/16/21

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 03/22/21

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 03/22/21

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

RODS Record of Decision System

VERSION DATE: 09/21/20

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

SEMS Superfund Enterprise Management System

VERSION DATE: 04/26/21

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 04/26/21

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SEMSLIENS SEMS Lien on Property

VERSION DATE: 06/22/20

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

SMCRA Surface Mining Control and Reclamation Act Sites

VERSION DATE: 12/18/20

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as information on the cost associated with the reclamation of those problems.

The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

SSEHRIPFAS SSEHRI PFAS Contamination Sites

VERSION DATE: 12/12/19

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Please access the following source link for the most current information: https://pfasproject.com/pfas-contamination-site-tracker/

SSTS Section Seven Tracking System

VERSION DATE: 08/04/20

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. "Production" includes formulation, packaging, repackaging, and relabeling. For this database, the Product Information is only available for establishments up through 2014 or prior years, product details are no longer released by the EPA within the current SSTS non-Confidential Business Information data.

TRI Toxics Release Inventory

VERSION DATE: 12/31/18

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/16

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured,

imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency (EPA) authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site. The EPA has collected Chemical Data Reporting (CDR) data since in 1986 (as Inventory Update Reporting). Collections occur approximately every four years and reporting requirements changed from collection to collection.

USUMTRCA Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

APCDP Air Pollution Control Division Permitted Facilities

VERSION DATE: 06/29/20

This list of Air Pollution Control Division Permitted Facilities is maintained by the Colorado Department of Public Health and Environment. The Stationary Sources Program evaluates and develops air permits for stationary sources in Colorado. The program inspects sources to determine compliance with air regulations and permit conditions and maintains a computerized inventory of air pollution emissions throughout the state.

ASBESTOS Asbestos Abatement and Demolition Projects

VERSION DATE: 12/28/17

The Colorado Department of Public Health and Environment's Air Pollution Control Division assists schools and businesses to comply with air pollution laws regulating asbestos and asbestos containing materials. The regulation that governs asbestos in Colorado is the Colorado Air Quality Control Commission s Regulation No. 8, Part B, "Emission Standards for Asbestos." Notification is required for all demolitions of all facilities and all asbestos abatement projects that exceed the trigger levels, whatever is the lesser quantity. The notification requirements apply to both friable and non-friable asbestos materials. This database contains those related projects since January 2008.

AST Aboveground Storage Tank Facilities

VERSION DATE: 07/01/21

This list of aboveground storage tank (AST) facilities is maintained by the Colorado Department of Public Health and Environment. Types of tanks included are: currently in use, never installed/existed, never installed-permit revoked, not regulated, other, pending installation, permanently closed, temporarily out of use.

BF Colorado Brownfield Sites

VERSION DATE: 11/12/20

This list of Colorado brownfields is maintained by the Colorado Department of Public Health & Environment (CDPHE) Hazardous Materials and Waste Management Division Brownfields Program in conjunction with the Voluntary Cleanup Program (VCUP). The brownfields database is an inventory of sites for which CPDHE has provided brownfields assistance in the form of targeted brownfields assessments, a revolving loan or grant through the Colorado Brownfields Revolving Loan Fund, and/or assistance through our state brownfields grants program. Most of these incentives are available only to local governments or nonprofits. In some cases, sites that receive state incentives also go through the VCUP program but most of the VCUP applicants are private entities not eligible for other state brownfields incentives.

CDPS Colorado Discharge Permit System Facilities

VERSION DATE: 02/03/19

The Colorado Department of Public Health & Environment's Water Quality Control Division regulates the

Colorado Discharge Permit System. This system controls stormwater discharges from construction activities by requiring a Stormwater Construction Permit to reduce pollutants from entering streams, river, lakes and wetlands as a result of runoff from residential, commercial and industrial areas. This database also includes facilities with Industrial Stormwater Permits.

CLEANERS Dry Cleaning Facilities

VERSION DATE: 04/16/21

This list of dry cleaners, which have obtained an air permit through the Air Pollution Control Division, is maintained by the Colorado Department of Public Health and Environment.

COVENANTS Environmental Real Covenants List

VERSION DATE: 11/23/20

This list of environmental covenants is maintained by the Colorado Division of Public Health and Environment. Senate Bill 01-145 gave authority to the Colorado Department of Public Health and Environment to approve requests to restrict the future use of a property using an enforceable agreement called an environmental covenant. These covenants, which are recorded with the deed and run with the land, provide a mechanism to ensure that institutional controls that are part of environmental remediation projects are properly implemented and that engineered structures are protected and maintained, so that implemented remedies continue to be protective of human health and the environment for as long as any residual contamination remains a risk.

HISTSWLF Historical Solid Waste Landfills

VERSION DATE: NR

This historical solid waste landfills database contains data from the Hazardous Materials Waste Management Division (HMWMD) of the Colorado Department of Public Health and other various state and local agencies. In the early 1980s, the HMWMD conducted a survey of staff members and local agencies to compile this listing of sites that were known or thought to have waste issues. This Solid Waste Historical Data is not considered complete or verifiable and has not been maintained since the late 1980s. The HMWMD is not responsible and shall not be liable to the used for damages of any kind arising out of the use of this data or information.

HWSCA Hazardous Waste Sites- Corrective Action

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by Congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the Hazardous and Solid Waste Amendments (HSWA) were added to RCRA providing for corrective action at facilities subject to RCRA. That same year, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. Corrective action may be implemented as part of a RCRA Hazardous Waste Permit, an Order, or a Corrective Action Plan pursuant to the Colorado Hazardous Waste Regulations. Corrective action is the process by which regulated facilities investigate and remediate, as necessary, all contamination (soil, ground water, surface water, air) associated with their releases into the environment. Historic Corrective Action Sites are facilities that have

completed the RCRA Subtitle C corrective Action process. This data was provided by the Colorado Department of Public Health and Environment in 2008, please contact the agency directly to verify current site details.

HWSG Hazardous Waste Sites- Generator

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. This facility listing includes RCRA sites listed as generators of hazardous waste (Small Quantity Generators and Large Quantity Generators) and was provided by the Colorado Department of Public Health and Environment in 2008, please contact the agency directly to verify current site details.

Small Quantity Generators (SQG) generate, in any calendar month, more than 100 kg (220 lbs.) but less than 1,000 kg (2,200 lbs.) of RCRA hazardous waste; and generate, in any calendar month, or accumulate at any time, no more than 1 kg (2.2 lbs.) of acute hazardous waste and no more than 100 kg (220 lbs.) of material from the cleanup of a spill of acute hazardous waste; and accumulate on-site no more than 6000 kg (13,200 lbs) of hazardous waste at any one time; or, the site is a Small Quantity Generator if the site met all other criteria for a Conditionally Exempt Small Quantity Generator, but accumulated, at any time, more than 1,000 kg (2,200 lbs.) of RCRA hazardous waste.

Large Quantity Generators (LQG) generate, in any calendar month, 1,000 kg (2,200 lbs.) or more of RCRA hazardous waste; or generate, in any calendar month, or accumulated at any time, more than 1 kg (2.2 lbs.) of RCRA acute hazardous waste; or generate, in any calendar month, or accumulated at any time, more than 100 kg (220 lbs.) of spill cleanup material contaminated with RCRA acute hazardous waste.

HWSTSD Hazardous Waste Sites- Treatment, Storage & Disposal

VERSION DATE: 06/30/03

The Resource Conservation and Recovery Act (RCRA) was enacted by congress in 1976, followed by the promulgation of implementing regulations in 1980. In 1984, the State was authorized by EPA to implement the RCRA program in Colorado on their behalf. TSD facilities treat, store, dispose, or recycle hazardous waste on site in units and therefore are subject to RCRA permitting requirements. Historic TSDs are facilities that have completed closure and/or post-closure of the RCRA Subtitle C Regulated Unit(s) or the Treatment/Storage/Disposal Unit is no longer regulated. This database was provided by the Colorado Department of Public Health and Environment in 2008, please contact the agency directly to verify current site details.

LST Leaking Storage Tank Facilities

VERSION DATE: 05/03/21

This database of aboveground and underground storage tank facilities with confirmed releases is a compilation of several lists maintained by the Colorado Department of Labor and Employment. Currently In Use, Never Installed/Existed, Never Installed-Permit Revoked, Not Regulated, Other, Pending Installation, Permanently Closed, Temporarily Out of Use tanks are included in this data. The next set of data is obtained from the Active

and Closed OPS Petroleum Release Events in Colorado database. This data includes the OPS Open Event locations, but also shows locations of closed events (releases that have been issued a No Further Action determination). The Events data utilized in this database includes the following status types: Brownfield, Closed, Enforcement, LUST Trust, Open and State Lead. Please note some Events (confirmed releases) may not have a contaminant present.

LUSTTRUST Leaking Underground Storage Tanks Trust Fund Sites

VERSION DATE: 01/01/00

Suspected tank leaks have been discovered at the sites are included in this database, but the facility responsible for the leak has not been identified. The state's investigation and search for responsible parties is paid for out of the state's Leaking Underground Storage Tank (LUST) Trust Fund. This data was originally collected in 2002 from the Colorado Department of Labor & Employment, Division of Oil & Public Safety, State Fund Section by a former environmental database company known as Satisfi. Please refer to State LST database as source of current LUST Trust sites.

METHANESITES Methane Gas Study Sites

VERSION DATE: 01/01/81

This Investigation of Methane Gas Hazards report was prepared by the Denver Office of Emergency Preparedness in 1981. The purpose of this study was to assess the actual and potential generation, migration, explosive and related problems associated with specified landfills, and to identify existing and potential problems, suggested strategies to prevent, abate, and control such problems and recommend investigative and monitoring functions as may be deemed necessary. The Colorado Department of Health selected eight landfills as priorities due to population density and potential hazards to population and property.

RECYCLERS Registered Recycling Facilities

VERSION DATE: 09/01/19

This list of registered recycling facilities in Colorado is maintained by the Colorado Department of Public Health & Environment. This list includes primarily processing facilities for recyclable materials, such as: material recovery facilities, industrial recycling operations, and recyclable material end user sites. Collection centers/drop-off locations are not included unless the site is also processing recyclable materials (separating, sorting, dismantling, grinding, baling, etc.).

SF Superfund Sites

VERSION DATE: 12/10/20

This list of Superfund Sites is maintained by the Colorado Department of Public Health and Environment. This list contains active, deleted and proposed "Superfund" hazardous waste sites, as well as those sites identified through the Natural Resource Damages section of Superfund legislation and one Private Non-Superfund Cleanup site. A site qualifies for the National Priorities List (NPL or Superfund list) when the U.S. Environmental Protection Agency (EPA) determines there is a release or threatened release of hazardous substances that may

endanger public health, welfare or the environment. In Colorado, the lead agency for Superfund remediation may be either the EPA or the Colorado Department of Public Health and Environment.

SPILLS Spills Listing

VERSION DATE: 02/28/21

The Colorado Department of Public Health and Environment's Division of Emergency Preparedness and Response maintains this listing of chemical spills and/or releases.

SWF Solid Waste Facilities

VERSION DATE: 12/18/20

The Colorado Department of Public Health and Environment maintains this database of solid waste disposal facilities, transfer stations, recyclers, waste tire registrants, and waste grease registrants. As of 11-6-19, the Waste Grease list has been discontinued and no new sites will be added as waste grease.

UMTS Uranium Mill Tailings Sites

VERSION DATE: 08/09/02

There were nine uranium mill tailings sites in Colorado designated for cleanup under the federal Uranium Mill Tailings Radiation Control Act (UMTRA). These nine sites, know commonly as UMTRA sites, were remediated jointly by the State of Colorado and the U.S. Department of Energy during the late 1980's and early 1990's. Mill tailings were removed from 8 of the mill sites and relocated in engineered disposal cells. A disposal cell is designed to encapsulate the material, reduce radon emanation, and prevent the movement of water through the material. At one site, Maybell, CO, the tailings were stabilized in-place at the mill site. After remediation of the tailings was completed, the State and DOE began to investigate the residual impacts to groundwater at the mill sites. The groundwater phase of the UMTRA program is on-going. This database was provided by the Colorado Department of Public Health and Environment in 2008, please contact the agency directly to verify current site details.

UST Underground Storage Tank Facilities

VERSION DATE: 07/01/21

This list of underground storage tank (UST) facilities is maintained by the Colorado Department of Public Health and Environment. Types of tanks included are: currently in use, never installed/existed, never installed-permit revoked, not regulated, other, pending installation, permanently closed, temporarily out of use.

VCRA Voluntary Cleanup and Redevelopment Program Sites

VERSION DATE: 05/31/21

This list of Voluntary Cleanup and Redevelopment Program Sites is maintained by the Colorado Department of Public Health and Environment (CDPHE) and includes both voluntary cleanup and brownfield properties. The

Voluntary Cleanup and Redevelopment program was created in 1994. The objective of the program is to facilitate the redevelopment and transfer of contaminated properties. Properties that sit untouched because of their real or perceived contamination can be rehabilitated using the CDPHE's Brownfields Program in conjunction with the Voluntary Cleanup Program. Cleanup decisions are based on existing standards and the proposed use of the property. The actual cleanup and verification is the owner's responsibility.

WCSWF Weld County Solid Waste Facilities

VERSION DATE: 01/25/18

This list of solid waste facilities is maintained by the Weld County Public Health Department. The Weld County Code (WCC), Section 23-4-380 is the only section of the WCC that pertains to solid waste operations. The siting, permitting and regulation of solid waste disposal sites is an area of dual jurisdiction between Colorado Department of Public Health and Environment and Weld County. The primary regulations that govern composting and solid waste facilities are the Colorado Regulations Pertaining to Solid Waste Disposal Sites and Facilities (6 CCR 1007-2). These regulations are implemented by the Colorado Department of Public Health & Environment. The Weld County Department of Public Health & Environment interacts with compost and solid waste facilities through the receipt of complaints, the land use planning process for facilities having a Use by Special Review (USR) Permit, site inspections, and investigations.

Environmental Records Definitions - TRIBAL

INDIANRES Indian Reservations

VERSION DATE: 09/27/17

This database is extracted from select geographic and cartographic information from the U.S. Census Bureau. The Bureau of Indian Affairs (BIA) within the U.S. Department of the Interior (DOI) provides the list of federally recognized tribes. The American Indian/Alaska Native/Native Hawaiian (AIANNH) Areas includes the following legal entities: federally recognized American Indian reservations and off-reservation trust land areas, state-recognized American Indian reservations, and Hawaiian home lands (HHLs). The boundaries for federally recognized American Indian reservations and off-reservation trust lands are as of January 2017. The boundaries for state-recognized American Indian reservations and for state designated tribal statistical areas were delineated by state governor-appointed liaisons for the 2010 Census through the State American Indian Reservation Program and Tribal Statistical Areas Program respectively.

LUSTR08 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 10/09/20

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

USTR08 Underground Storage Tanks On Tribal Lands

VERSION DATE: 10/09/20

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 8. This region includes the following states: Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

APPENDIX D

PREVIOUS ENVIRONMENTAL ASSESSMENTS

CTL | THOMPSON INCORPORATED

PHASE I ENVIRONMENTAL SITE ASSESSMENT
4060 COUNTY LINE ROAD
ERIE, COLORADO

Prepared for:

Skyline Builders
202 Main Street #4
Longmont, Colorado 80501

Attention: Mr. JD Parker

Project No. FC05859.000-200

June 7, 2012

351 Linden Street, #140 | Fort Collins, Colorado 80524 | Telephone: 970-206-9455

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1.0 INTRODUCTION

This report was prepared by CTL|Thompson, Inc. (CTL) for Skyline Builders and presents the results of the Phase I Environmental Site Assessment (ESA) for 4060 County Line Road in Erie, Colorado.

The Environmental Site Assessment is the part of the property acquisition due diligence process.

1.1 Purpose

The purpose of this Phase I ESA was to identify Recognized Environmental Conditions (RECs), to the extent feasible, in general accordance with the methods and procedures described in the American Society for Testing and Materials (ASTM) Practice E 1527-05: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the property.

A REC is defined as the presence, or likely presence, of hazardous substances or petroleum products on a site under conditions that indicate an existing release, a past release, or a material threat of a future release of hazardous substances or petroleum products into structures on the site or into the ground, groundwater, or surface water of the site. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.2 Scope of Services

The scope of services for this assessment, as outlined in CTL Proposal No. FC-12-0123, generally consisted of the following tasks:

- Reconnaissance of accessible areas of the Site and a brief drive-by survey of adjacent properties to look for readily apparent indications of current or past activities that could have, in our opinion, caused significant site contamination by hazardous materials or petroleum products.

- Review of readily available historical aerial photographs, topographic maps, and records referenced within this report and interviews with persons knowledgeable of the Site to help establish past site and immediate vicinity land usage.

- Review of readily available documents and maps to evaluate physical features of the Site, such as anticipated groundwater flow direction.

- Review of a regulatory agency database report to obtain information on reported hazardous material or petroleum product incidents on the Site or within the nearby vicinity.

- Review of readily available local government agency files to obtain information about the use and storage of hazardous materials or petroleum products at the Site.

- Assessment and documentation of our findings.

2.0 SITE LOCATION AND DESCRIPTION

The Site is located at 4060 County Line Road in Erie, Colorado. The Site contains one Parcel 145718300003 and is approximately 2.5 acres and is currently developed as a warehouse/storage area but is currently vacant. The address listed on the assessor web site is 4060 1CR.

The Site is located in Section 18, Township 1 North, Range 68 West of the 6th Principal Meridian in Weld County. A recent aerial photograph, topographic map, and vicinity map are provided in Appendix A.

3.0 USER PROVIDED INFORMATION

User information was provided by Mr. JD Parker, Skyline Builders.

3.1 Reason for Performing this Phase I ESA

Skyline Builders requested this Phase I ESA as part of their due diligence for potential purchase of the property.

3.2 Previous Environmental Assessments

The current property owner representative, Mr. Clark Foster, reported the property address as 4060 County Line Road, Erie, Colorado. He was not aware of any previous environmental site assessments performed on the site.

3.3 Owner, Site Manager, and Occupant Information

The Weld County Property Assessor website stated that the current Site owners for 4060 County Line Road as INA Group, LLC.

4.0 SITE RECONNAISSANCE

4.1 Methodology and Limiting Conditions

Melissa L. Chalona of CTL conducted the site visit on May 10, 2012. The Site was observed by walking the property. No owner representative was present for the site visit, but Ms. Cheryl Zaruba, the previous site owner was interviewed via telephone about site features. Access to the Site was not restricted. The Site is occupied by two buildings for work and storage, and drive areas. Ms. Chalona performed a walk-by and drive-by survey of the surrounding properties from public roadways and adjacent properties. A photographic record of the site reconnaissance is presented in Appendix B.

4.2 Description of On-Site Structures

At the time of our reconnaissance, the property had two buildings. The main building located centrally on the Site was a large metal building that had a large work area with smaller office storage areas. The large work area appeared to have a dirt floor with a large concrete trough that ran along the south side of the building from east to west. The secondary building was located on the northeast corner of the property. It appeared to be a work/storage area with storage bins and work tables. There was a diesel fuel sign attached to the outside of the second building but there was not evidence of either an above or underground storage tank.

The Site is shown on Figure 1 and identifies existing features on the subject property. The Site surface topography was relatively flat with a slight slope to the southeast.

4.3 Other On-Site Features

During our reconnaissance, we specifically looked for obvious evidence of the features listed in Table 1. Bold text in Table 1 indicates that the feature was readily observable. The features we observed are discussed in further detail in the subsequent subsections.

Table 1
On-Site Features Under Consideration

□ **Aboveground Storage Tanks (AST's)**	□ Railroad Lines
□ Air Emission Sources	□ Septic Tanks / Leach Field Systems
□ Boilers (Non Natural Gas)	□ **Solid Waste Disposal Areas**
□ Cultivated Land, Crops, or Orchards	□ **Staining or Corrosion**
□ **Drains, Sumps, or Pits**	□ **Stressed Vegetation**
□ Emergency Generators	□ Surface Waters, Streams, Ponds, Lagoons
□ Exhaust Hoods and Ducting	
□ **Hazardous Material Storage or Use Areas**	□ **Transformers**
	□ **Underground Storage Tanks (UST's)**
□ High Power Transmission Lines	□ Unidentified Piping Leading Below Grade
□ Hydraulic Elevators or Lifts	
□ Incineration Areas	□ Unidentified Substance Containers
□ **Odors**	□ Vehicle or Equipment Maintenance Areas
□ Oil Water Separators or Clarifiers	
□ Pesticide Mixing / Use Areas	□ Vehicle Wash Areas
□ Petroleum Pipelines	□ Waste Water Discharge
□ Construction Debris	□ Waste Water Treatment Systems
□ **Placed Fill / Soil Stockpiles / Imported Soils**	□ **Wells (Agricultural or Water Supply)**
	□ Wells (Monitoring or Dry)
□ Hazardous Materials	□ Wells (Natural Gas or Oil)

4.3.1 Above Ground Storage Tanks

A sign indicating diesel fuel was located on the building on the northeast corner of the Site. Adjacent to the building there was an above ground concrete vault that Ms. Zaruba indicated had previously held two above ground diesel tanks. No tanks were visible at the time of the site visit. No visible staining, odors, or other environmental concerns were

observed in connection with the concrete vault.

4.3.2 Drains, Sumps or Pits

A pit was found on the southwest corner of the warehouse/precast building that was full of water. It is possible that the pit could be part of a well, a septic tank or a sand oil separator. Ms. Zaruba indicated that she was not certain of the purpose of the pit, but it could have been a previous well or septic tank. No visible staining, odors, or other environmental concerns were observed in connection with the pit.

A large trough was located in the warehouse/precast building along the south side of the building. The trough was currently filled will soil, debris and drums. Ms. Zaruba indicated that the trough was previously used to hold the precast concrete forms during pouring. Ms. Zaruba also stated that once the trough was no longer used, the trough was filled in with soil and debris to prevent a fall hazard. The drums inside the trough were improperly disposed of with visible signs of staining in some of the surrounding soil and are of environmental concern.

Several precast concrete lids were located throughout the site. It is not known if these are all abandoned product from the previous precast business or if there is possibly a vault or pit associated with any of these. CTL inquired with Ms. Zaruba if there were any other pits or vaults onsite that were associated with these precast lids, but she was not aware of any. There are no environmental concerns with the storing of precast concrete products, but if it is determined that one of these is associated with an underground pit or vault, it may be of environmental concern.

4.3.3 Hazardous Material Storage and Use Areas

Hazardous materials, including primarily 55 gallon and 5 gallon drums, were found throughout the Site. Many of the 55 gallon and 5 gallon drums were in poor condition with rusting, holes, open topped, or stored on their sides. Hazardous materials with labeling included heavy motor oil, hydraulic oil, and deactivator. Visible staining was observed around the hazardous materials throughout the Site. Improperly stored hazardous materials and staining are of environmental concern.

4.3.4 Odors

Odors were observed in the main warehouse/precast building. The odors observed appeared to be petroleum based. Odors within the precast building are of environmental concern.

4.3.5 Soil Stockpiles

Several soil stockpiles were located throughout the site. Some of them were part of larger solid waste disposal piles that included hazardous material containers and some were just soil and gravel piles. The origin of these stockpiles is not known. The unknown soil origin and the comingling with solid waste and hazardous material containers are of environmental concern.

4.3.6 Solid Waste Disposal Areas

Solid waste disposal piles were located throughout the site. The solid waste included wood, pallets, concrete, hazardous material containers, precast concrete pieces, equipment, furniture, cardboard forms, tires, etc. The observable solid waste that is of environmental concern is the hazardous waste containers.

4.3.7 Staining

Stained soil was found in several areas of the site both adjacent to hazardous material containers, within the precast building, and on surrounding drive areas. Staining was also observed on the wooden wall of the precast building. The stained soil and stained walls are of environmental concern.

4.3.8 Stressed Vegetation

Stressed vegetation was found in several areas of the site adjacent to hazardous material containers. The stressed vegetation adjacent to hazardous material containers is of environmental concern.

4.3.9 Transformers

Several pole mounted transformers were found adjacent to the site. The transformers appeared to be in good repair with no sign of leaking or exterior damage. The transformers were not labeled to indicate that they were PCB free. No visible staining or stressed

vegetation was observed associated with the transformers. The pole mounted transformers are not of environmental concern.

4.3.10 Underground storage tanks

Ms. Zaruba indicated that she was aware of an underground storage tank on the east side of the warehouse/precast building. She believes that the tank had been previously removed, but is not certain. The presence of an underground storage tank on the Site is of environmental concern.

4.3.11 Water supply well

Ms. Zaruba indicated that she was aware that the Site previously had water supplied by a water well. She is not aware of the well location or if the water well is still in place. The presence of non-operational water well on the site is not of environmental concern.

4.4 Adjacent Land Use

General observations of properties adjacent to the Site were performed in conjunction with our on-site observations. Based on outdoor observations from nearby public streets, the surrounding areas are residential, commercial and educational facilities. We did not observe direct evidence of adverse environmental conditions on adjacent properties to the Site that appeared likely to impact the Site. Our observations are presented in Table 2.

Table 2
Adjacent Properties

Direction	General Observations
North	Residential
East	Residential
South	Residential
West	Office/Warehouse Commercial/Residential

5.0 HISTORICAL USE INFORMATION

5.1 Historical Aerial Photographs, Maps, and City Directories

Historical aerial photographs, topographic maps, Certified Sanborn® maps, and city directories of the Site and surrounding areas were reviewed to help establish the Site history (See Appendices C, D, E, and F). The years of the readily available photographs and maps are presented in Table 3. An interpretation of the photographs and maps is presented afterward. No former property uses were identified that would likely have obvious detrimental environmental impacts.

Table 3
Historical Aerial Photographs and Maps

Historical Source	Years Reviewed
Aerial Photographs	1949, 1955, 1966, 1971, 1978, 1983, 1988, 1993, 1999, 2005, 2006
Topographic Maps	1904, 1951, 1967, 1971, 1979
Certified Sanborn® Maps	1948
City Directories	None available

- 1949, 1955, 1966, 1971: The aerial photograph shows the Site as generally undeveloped/agricultural with possible trees or structures on the east side. Areas to the north and east are moderately developed with areas to the south and west as agricultural.
- 1978, 1983, 1988, 1993: The aerial photograph shows the Site as developed with a large building. Areas to the south of the Site now appear to be developed as residential with the area to the west of the Site now appear to be developed as commercial.
- 1999: The aerial photograph shows the Site as developed with a large building. New commercial development is seen to the southwest of the Site.
- 2005, 2006: The aerial photograph shows the Site as developed with a large building with lots of equipment or containers located on the Site. New commercial development is seen to the southwest and west of the Site.
- 1904: The topographic maps show no development in the area of the Site except for a few isolated offsite buildings.

- 1951, 1967, 1971: The topographic map shows no development on the Site, residential buildings are shown to the north and east of the Site.
- 1979: The topographic map shows one large building on the Site with additional residential development to the south of the Site.
- 1948: The Certified Sanborn map does not show the Site but it does show the surrounding area to the north and east. Surrounding areas shown appear to be primarily residential with the Erie High School located to the north.

5.2 County Assessor Records

CTL reviewed online public information records from the Weld County Assessor Office for the Site. The information we obtained is summarized in Table 4.

Table 4
Summary of County Assessor Records

Property Number	Assessor's Parcel Number	Parcel Listed Address	Parcel Listed Owner	Previous Listed Owners	Additional Information Obtained
1	146718300003	4060 1CR	INA Group LLC	Donald G. Zaruba, Weld County Treasurer	Approx acres = 2.5, 12,300 sf, 1973

5.3 50-Year Chain of Title and Environmental Lien Report

The Client did not provide a 50-year chain of title or environmental lien report for the Site.

6.0 RECORDS REVIEW

6.1 Geology and Subsurface Conditions

Geologic mapping indicates the surface soils over the Site consist of windblown clay, silt, sand and granules (Roger B. Colton, 1978).

6.2 Groundwater

It is our experience that the flow direction of shallow, unconfined ground water is generally controlled by topography. Based on topography, we estimate the general direction of ground water flow below the site is to the east toward Coal Creek and Cottonwood Extension Ditch. Topographic data suggests areas up-gradient of the site are generally to the northwest/west. Potential groundwater depths were determined by reviewing water wells from 0-1/8 mile from the Site with the Geocheck® report provided from EDR. The water levels for the surficial aquifer ranged from 10 to 35 feet from ground surface.

6.3 Physical Setting Analysis

The site slopes to the east. A hypothetical spill of a hazardous or petroleum substance on the Site would be expected to migrate east toward the Coal Creek and Cottonwood Extension Ditch. Potential upgradient sources are to the northwest/west of the Site.

7.0 REGULATORY AGENCY RECORDS

7.1 Regulatory Agency Database Report

On May 17, 2012 a database search was obtained from Environmental Data Resources, Inc. to gather historical environmental information about the Site and the surrounding area. The database report contains information obtained from a variety of environmental databases such as Superfund sites, leaking underground storage tank sites, hazardous waste generators, and landfills. We reviewed the report to help ascertain if incidents of potential environmental concern had been reported on the Site or within the nearby vicinity. The regulatory agency database report, which contains the record findings, a list of the regulatory agency databases reviewed, a description of the databases, and an area map indicating the location of the reported facilities relative to the Site is presented in Appendix G. A summary of the mapped regulatory agency database report findings, including mapped facilities within the ASTM search radius, is presented in Table 5. A summary of the significant on-site listings, adjacent parcel listings, and pertinent nearby reported hazardous material spills or releases are presented in Table 6.

Table 5
Database Summary

Database		Number of Sites within ASTM Search Radii
NPL	National Priorities List	0

NPL Delisted	Database of Delisted NPL sites	0
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System	0
NFRAP	Comprehensive Environmental Response Compensation and Liability Information System – Archived Sites	0
RCRA COR ACT	Resource Conservation and Recovery Information System Sites	0
RCRA TSD	RCRA - Hazardous waste treatment, storage, and disposal	0
RCRA GEN	RCRA – Generators	0
RCRA NLR	RCRA – No Longer Registered	0
Federal IC/EC	Brownfield Management System	0
RCRA – non gen	Non generators	0
ERNS	Emergency Response Notification System	0
Tribal Lands	Indian Land of the United States	0
State Spills 90	CDPHE – Environmental Release and Incident Database	0
State/Tribal SWL	CDPHE – Database of Active Solid Waste Management Facilities	0
SWRCY	Solid Waste Recycling Facility	0
State/Tribal LUST	COSTIS – Database of Leaking Underground Storage Tanks	2
State/Tribal TRUST	COSTIS – Database of Leaking Underground Storage Tanks	1
State/Tribal UST/AST	COSTIS – Database of Underground Storage Tanks	6
State/Tribal EC	CDPHE – Environmental Covenants	0
State/Tribal VCP	CDPHE – The Voluntary Clean-Up and Redevelopment Program	0
Meth Labs	Methamphetamine Laboratory	0
SWRCY	Local list of landfill/solid waste facilities	0
Receptors	Sensitive Receptors	0
NPDES	National Pollution Discharge Elimination System	0
FINDS	Facility Index System	1
TRIS	Toxic Release Inventory System	0
HMIRS	Hazardous Materials Incident Response System	0
NCDB	National Compliance Database System	0
PADS	Database of PCB handlers	0
AIRS	Aerometric Information Retrieval System	0
MINES	Mines Master Index File	2
DOCKET	Integrated Compliance Information System	0
Nuclear Permits	Permitted Nuclear Facilities	0
Releases		0
Federal Other		0

Table 6

Summary of Mapped Regulatory Agency Database Report Findings

SITE LISTING – 4060 County Line Road					
Database Map ID	Listing Address	Facility Name	Approximate Location Relative to the Site	Remarks	Potential For Site Impact
A1	4060 NE County Line Road	Erie Pre-Cast	N/A	FINDS – AIRS Airometric Information Retrieval System	LOW Based on location onsite, air emission impact and no reported violations.
A2	4060 NE County Line Road	Erie Pre-Cast Concrete Products	N/A	UST – Closed Status, 2 AST – Closed Status Additional files were reviewed from the COSTIS. Although the tanks both have closed status, there was no supporting documentation about closure activities that indicated if UST tank had been removed and if there had been sampling to determine potential contamination. Additional documentation as found on COSTIS are found in Appendix I.	MEDIUM Based on distance, onsite location, no confirmation of removal or sampling and no confirmed release.

NEARBY PARCELS					
Database Map ID	Listing Address	Facility Name	Approximate Location Relative to the Site	Remarks	Potential For Site Impact
3	1149 Telleen	Erie Maintenance Shop	1019 feet to the WSW	AST – Closed Status	LOW Based on distance, upgradient* location, and no confirmed release.
B4	4200 NE County Road	Conoco	1168 feet to the NNW	UST – 5 tanks, 2 closed, 3 open, no confirmed releases.	LOW Based on distance, crossgradient* location, and no confirmed release.

NEARBY PARCELS					
Database Map ID	Listing Address	Facility Name	Approximate Location Relative to the Site	Remarks	Potential For Site Impact
B5	4200 NE County Road	Sky Petroleum, LLC	1168 feet to the NNW	LUST, AIRS – Confirmed release 1994, closed status	MEDIUM-LOW Based on distance, crossgradient* location, and confirmed release.
B6	785 Chessman	Unknown	1178 feet to the N	UST – 4 tanks closed, no confirmed releases	LOW Based on distance, crossgradient* location, and no confirmed release.
7	12640 Jay Road	Triple M Masonry Inc	1219 feet to the NNW	UST –2 tanks closed, no confirmed release	LOW Based on distance, crossgradient* location, and no confirmed release.
C8	Boulder County	Bailey Concrete Prods	1282 feet to the NE	Non coal mine	LOW Based on distance, downgradient* location.
C9	Boulder County	C&M Sand and Gravel	1282 feet to the NE	Non coal mine	LOW Based on distance, downgradient* location.
10	235 Cheesman Street	Halls Grocery	1940 feet to the NE	LUST, LUST TRUST, UST – Confirmed release 2003, closed status	LOW Based on distance, downgradient* location, and confirmed release and cleanup.

***** With respect to the anticipated groundwater flow direction.
Note: The lateral dimensions of most leaking underground storage tank sites do not exceed more than a few hundred feet. (Lawrence Livermore National Laboratory, UCRL-AR-122207, dated November 16, 1995.)

In some cases, a listed facility cannot be mapped due to poor or inadequate address information, but instead may be listed only by city, county, zip code, or site name. The regulatory database report listed 32 such “unmappable” sites.

7.2 Weld County Public Health Department

The Weld County Department of Health and Environment was contacted regarding the Site. No response has been received as of the date of the report.

7.3 Fire Department

Mr. Mark Lawley, Fire Chief for the Mountain View Fire Protection District was contacted regarding the Site. Ms. Luann Penfold from the Mountain View Fire Protection District contacted CTL via phone on May 14, 2012. Ms. Penfold indicated that there were two events from the fire department at the Site. One event including an inspection of above ground gravity flow tanks on the site that stored fuel. Ms. Penfold did not remember where the tanks had been located, but she did remember that they did not have secondary containment. The second event was in response to an electrical fire on March 19, 2006. The building was vacant at the time of the response.

8.0 INTERVIEWS

8.1 Purchaser

During our study, an environmental questionnaire was provided to the potential purchaser, Mr. JD Parker of Skyline Builders. The information obtained from the questionnaire was used to gain general knowledge of past and current Site usage. Mr. JD Parker answered the following to the best of his knowledge. His complete responses are provided in Appendix H.

- He was unaware of environmental cleanup liens against the Site that had been filed or recorded under federal, tribal, state, or local law.
- He was not aware of Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the Site, have been filed, or recorded in a registry under federal, tribal, state or local law.
- He did not have specialized knowledge of the property or nearby properties.
- He said that the purchase price being paid for this property reasonably reflected the fair market value of the property.
- He was not aware of commonly known or reasonably ascertainable information about the Site that would help environmental professionals identify conditions

indicative of releases or threatened releases. Such information would include knowledge of past Site uses, chemical storage on the Site, hazardous materials spills, or previous environmental cleanups at the Site.

- He did not have knowledge or experience of obvious indicators of the presence or likely presence of contamination at the Site with the exception of barrels onsite.

Mr. JD Parker also completed the "Owner Questionnaire", so his responses are included as follows. He was not aware of any previous environmental investigations associated with the site. Mr. Parker indicated he had been associated with the Site for two months and that they had previously known the owner of the site and had purchased concrete tanks there. He states that the current owner is Mr. Tom Beckius since December 2011. Mr. Beckius acquired the property through tax liens and treasured deeds. The previous owner was indicated as Ms. Cheryl Zaruba from the 1980's to 2001. Ms. Zaruba's husband was the operator of the site till he passed away in 2002. He stated the current use of the Site was vacant/abandoned. Past uses of the site were Erie Precast, which made concrete tanks and manhole forms. He was not aware of any environmental concerns on the adjacent parcels. He was not aware if there were any hazardous waste spills, waste disposal areas, or other recognized environmental concerns related to the Site with the exception of above ground storage tanks, previous underground storage tanks on the Site, and the precast concrete plant onsite for 20 years. Mr. Parker believes that water is supplied to the site now by the public water system. He was not aware of any sewerage disposal system onsite. Mr. Parker indicates that there are various barrels onsite that have unknown contents. He is not aware that any chemical wastes have been discharged to the sanitary sewer. He is not aware of any leaks or spills of hazardous material on the property. He is not aware of any notice of environmental violation. Mr. Parker is not aware of any soils, debris or other materials placed on the property. Mr. Parker did indicate that other environmental information regarding the site included the use of form oil and machinery repair on the Site.

8.2 Site Manager and/or Occupants

Mr. Clark Foster, the current property owner representative, completed an environmental questionnaire prepared to comply with ASTM E 1527. He was not aware of any previous

environmental investigations associated with the site. Mr. Foster indicated he had been associated with the Site for approximately four months. The current owner was indicated as INA Group LLC since December 2011. The previous owners were not indicated. He stated the current use of the Site was vacant with a commercial building. He was not aware of any environmental concerns on the adjacent parcels. He was not aware if there were any hazardous waste spills, waste disposal areas, or other recognized environmental concerns related to the Site with the exception that the buyer has stated a presence of underground storage tanks. The seller (INA Group) has never been to the Site and has no actual knowledge of such. It is unknown how water is supplied to the site or of any sewerage disposal system. Mr. Foster indicates he is not aware of any hazardous substance used, handled or stored on the Site. He is not aware that any chemical wastes have been discharged to the sanitary sewer. He is not aware of any leaks or spill of hazardous material on the property. He is not aware of any notice of environmental violation. Mr. Foster is not aware of any soils, debris or other materials placed on the property.

Mr. Foster also completed the "Client Questionnaire", so his responses are included as follows.

- He was unaware of environmental cleanup liens against the Site that have been filed or recorded under federal, tribal, state, or local law.
- He was not aware of Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the Site or have been filed or recorded in a registry under federal, tribal, state or local law.
- He did not have specialized knowledge of the property or nearby properties.
- He said that the purchase price being paid for this property reasonably reflected the fair market value of the property.
- He was not aware of commonly known or reasonably ascertainable information about the Site that would help environmental professionals identify conditions indicative of releases or threatened releases. Such information would include

knowledge of past Site uses, chemical storage on the Site, hazardous materials spills, or previous environmental cleanups at the Site.

- He did not have knowledge or experience of obvious indicators of the presence or likely presence of contamination at the Site with the exception that the buyer has stated a former presence of an underground storage tank.

9.0 DEVIATIONS

9.1 Exceptions and Deletions

ASTM Standard E 1527-05 for Phase I Environmental Site Assessments, Section 8.3.2, states that "all obvious uses of the site shall be identified from the present, back to the site's obvious first developed use or back to 1940, whichever is earlier." The term "developed use" includes agricultural uses (i.e., cultivated land or agricultural crops) and placement of fill. In our opinion, livestock rangeland is not a developed use.

The site-specific historical documentation for this assessment went back to 1904 on the basis of topographic maps. Our research showed that the Site was undeveloped for the 1904 map; thus, the Site does meet the substantial requirements of the ASTM standard.

9.2 Data Gaps

A 50-year chain of title was not provided for the property and is considered a data gap. However, based on the information presented in this report, we do not believe that there are significant data gaps that would affect our ability to identify recognized environmental conditions associated with the Site.

10.0 LIMITATIONS

Tall vegetation, concrete products, solid waste and soil stockpiles obscured the ground on the day of the site visit and limited visibility of the ground surface conditions in some areas. These limitations may affect our ability to identify recognized environmental conditions associated with the Site.

This Phase I ESA was prepared in general accordance with ASTM Standard E 1527-05. There may be additional environmental issues present at the Site that are outside the scope of this practice including, but not limited to the following: asbestos, radon, lead in drinking water, cultural and historic resources, fungi, industrial hygiene, indoor air quality, health and safety, ecological resources, endangered species, biological or infectious agents and pathogens, wetlands, jurisdictional waters of the U.S., regulatory compliance, and high voltage power lines.

CTL|Thompson, Inc. has provided opinions based upon the condition of the Site on the day it was observed and upon a review of existing and reasonably ascertainable regulatory records and historical information. As with all site assessments, the extent of the information obtained is a function of client demands, time limitations, and budgetary constraints. Sampling and analysis would lead to a more reliable assessment of environmental conditions.

The opinions, conclusions, and recommendations of this report are not intended to be used or relied upon by a third party to this Agreement. With the written consent of our client, CTL may be available to contract with other parties to provide opinions or conduct additional environmental assessment services. Due to latent conditions and other contingencies that could become evident in the future, the current assessment does not result in any guarantee that the subject Site is free and clear of all hazardous materials. Should additional surface, subsurface, or chemical data become available, the conclusions and recommendations contained in this report shall not be considered valid unless the data is reviewed and the conclusions of this report are modified or approved in writing by our firm.

11.0 CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

11.1 Site Location and Historical Site Use

The Site is located at 4060 County Line Road in Erie, Colorado. Historic site use as a precast concrete plant with use of form oil and other chemicals used onsite in a warehouse with a dirt floor is of environmental concern.

Based on aerial photos, topographic maps, county assessor data, and interviews, the Site has been developed as the current warehouse precast buildings with known previous uses as undeveloped/agricultural.

11.2 Site Visit

The Site is occupied by two buildings, work, and storage and drive areas. Items identified on-site that were not considered to be of environmental concern included above ground storage tanks, transformers, water wells, abandoned concrete products, and pit on the southwest corner of building, These items appeared to be in good working order with no staining, leaking, odors or stressed vegetation.

Items identified on-site that were considered to be of environmental concern include the following:

- Hazardous materials were being or had been stored on the site in 55 gallon or 5 gallon drums. The drums contained motor oil, hydraulic oil, deactivator and other unknown contents. All of the drums were improperly stored directly on the soil and often exposed to the elements. Many drums were damaged and leaking with visible signs of soil staining. The potential contaminated soil and groundwater from leaking or spillage from drums is of environmental concern.
- Odors of petroleum products were observed upon entering the precast building. Odors indicated the potential presence of petroleum products on either the building materials or soil. The potential contaminated soil, groundwater and building materials are of environmental concern.
- Soil stockpiles were located throughout the Site. The origin of the stockpiles is unknown and they were often mixed with solid waste containing hazardous material containers. The potential contaminated soil in the stockpiles is of environmental concern.
- Solid waste piles were located throughout the Site and contained hazardous material containers. The potential contaminated soil and groundwater from leaking hazardous material containers in the solid waste piles is of environmental concern.
- Stained soil and stressed vegetation found throughout the Site indicates improper use of hazardous materials or improper storage of hazardous material containers due to leaking, spilling or overspraying. The potential contaminated soil and groundwater from improper use of hazardous materials or improper storage of hazardous material containers is of environmental concern.
- A potential previous or existing underground storage tank on the Site is of concern

for both past and or current releases of petroleum containing products. The tank was registered with the Colorado Division of Oil and Public Safety and had a status of permanently closed. After reviewing the COSTIS records, documentation was not found that indicated the closure procedures for the underground storage tank including if the tank had been removed and if confirmation sampling had been performed on the Site. The potential contaminated soil and groundwater from the previous or existing underground storage tank is of environmental concern.

11.3 Nearby Environmental Concerns

The Site is located in an area that is a combination of commercial, and residential. Commercial businesses of concern were duplicated in the next section on the environmental database. Other adjacent concerns were not identified.

- An environmental database search was performed to review information obtained from a variety of environmental databases (i.e., Superfund sites, leaking underground storage tank sites, hazardous waste generators, landfills, and others). The database helped to ascertain if incidents of potential environmental concern (e.g., spills, permits, registrations, hazardous waste incidents, historical usage) have been reported on the Site or within the nearby Site vicinity. The only facility identified to be of environmental concern was the subject Site and the record of an underground storage tank on the Site. The tank was registered with the Colorado Division of Oil and Public Safety and had a status of permanently closed. After reviewing the COSTIS records, documentation was not found that indicated the closure procedures for the underground storage tank including if the tank had been removed and confirmation sampling on the Site. The potential contaminated soil and groundwater from the previous or existing underground storage tank is of environmental concern.

Other facilities identified in the database were considered to be cross-gradient, down-gradient, closed status, no confirmed releases or too far from the Site to be of environmental concern.

11.4 General Conclusions

We have performed this Phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-05. Exceptions to, or deletions from, this practice are described in Section 9.0 of this report, and limiting conditions are described under Sections 4.1 and 10.0. CTL's assessment has revealed no evidence of Recognized Environmental Conditions (RECs) in connection with the Site with the exception of the following:

1. The potential contaminated soil and groundwater from leaking or spillage from drums is a Recognized Environmental Condition (REC).
2. The potential contaminated soil, groundwater and building materials within the warehouse are of environmental concern and are Recognized Environmental Condition (REC).
3. The potential contaminated soil in the stockpiles with hazardous materials containers
   is a Recognized Environmental Condition (REC).
4. The potential contaminated soil and groundwater from improper use of hazardous materials or improper storage of hazardous material containers is Recognized Environmental Condition (REC).
5. The potential for soil and groundwater contamination from potential previous or existing underground storage tank on the Site is a Recognized Environmental Condition (REC).

11.5 Recommendations

CTL indentifies the following recommendations:

- Any soil and/or groundwater contamination related to the identified RECs can only be determined by performing a subsurface investigation. A subsurface investigation should be performed prior to the property transfer to investigation possible site contamination. Specific recommendations for the Phase II work plan will be provided in a separate letter.
- Any drums, hazardous material containers, concrete products, tires or other solid waste debris should be removed from the Site and property disposed of according to state and local regulations prior to property transfer.

After acquiring the property, to maintain the liability protections, landowners must comply with "continuing obligations" during their property ownership. The continuing obligations include:

1) Provide all legally required notices with respect to the discovery or release of a hazardous substance;

2) Exercise appropriate care with respect to the hazardous substances by taking reasonable steps to stop or prevent continuing or threatened future releases and exposures, and prevent or limit human and environmental exposure to previous releases;

3) Provide full cooperation, assistance, and access to persons authorized to conduct response actions or natural resource restoration;

4) Comply with land use restrictions and not impede the effectiveness of institutional controls; and

5) Comply with information requests and subpoenas.

11.6 Regulatory Compliance Issues

Several items were identified that although are not considered recognized environmental conditions from impacting the Site, these items are considered an environmental business risk from an operational standpoint:

According to the Colorado Department of Public Health and Environment (CDPHE) Hazardous Materials and Waste Management Division, any concentration of asbestos in soils is regulated by the CDPHE. In 6 CCR 1007-2 Part 1 *Regulations Pertaining to Solid Waste Sites and Facilities*, the CDPHE defines the procedures required for management of asbestos contaminated soils. If asbestos or asbestos materials are discovered in soils at any detectable concentration, the CPDHE would be required to be notified and an asbestos management plan be implemented before disturbing the soils on the site.

The presence of asbestos and lead-based paint can be an environmental risk with the potential for extensive costs during renovation, remodeling, or demolition of buildings. Lead-based paint is of concern in pre-1978 buildings. Construction and renovation work for buildings containing asbestos and lead-based paint may be subject to the Federal and State regulations. The cost of asbestos and lead-based paint management or abatement should be considered prior to property transfer. Consequently, CTL recommends performing a lead-based paint and asbestos survey prior to purchase of the buildings.

12.0 QUALIFICATIONS

This Phase I ESA report was prepared and reviewed by licensed Professional Engineers (PE) registered in the State of Colorado. The resumes of the individuals conducting this Phase I ESA are included in Appendix J.

Ms. Chalona declares that, to the best of her professional knowledge and belief, she meets the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject Site. We have developed and performed the appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

We believe that this investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

CTL|THOMPSON, INC.

COLORADO REGISTERED MELISSA L. CHALONA 34745 PROFESSIONAL ENGINEER 6/7/12

Melissa L. Chalona, PE, LEED AP
Environmental Department Manager

Reviewed by:

Matthew L. Wardlow, PE
Quality Assurance Reviewer

Addressee (3 copies)

REFERENCES

JD Parker, Director of Investments, Skyline Builders, Questionnaire, May 3, 2012.

Environmental Data Resources, Inc. Information, *Aerial Photo Package*, dated May 1, 2012.

Environmental Data Resources, Inc. Information, *City Directories,* dated May 2, 2012.

Environmental Data Resources, Inc. Information, *Certified Sanborn® Maps*, dated May 1, 2012.

Environmental Data Resources, Inc. Information, *Environmental Database Search*, dated May 17, 2012.

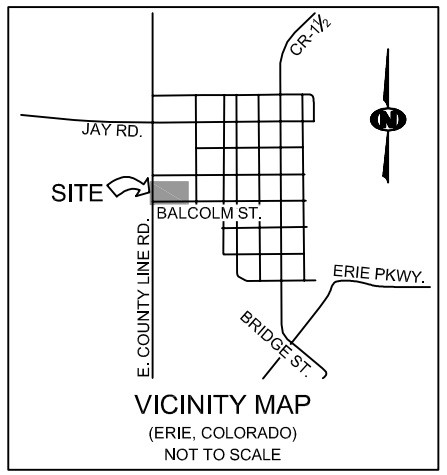
Environmental Data Resources, Inc. Information, *Topographical Map Package,* dated May 1, 2012.

Foster, Clark, Owner, and Questionnaire May 2, 2012.

Weld County Assessor Office, *Public Record Property Information*, viewed May 14, 2012.

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

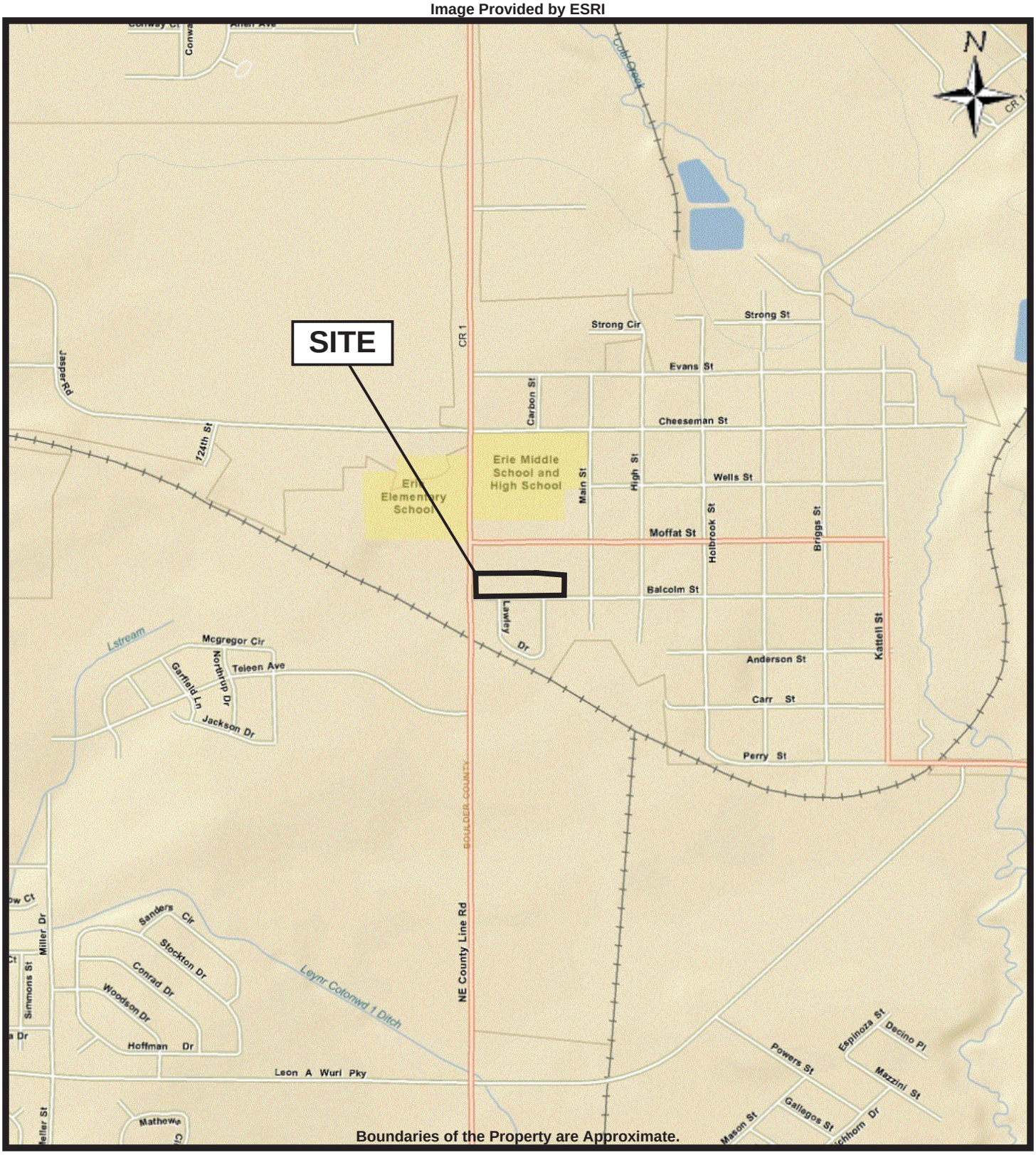


VICINITY MAP
(ERIE, COLORADO)
NOT TO SCALE

Figure 1
Phase I ESA
4060 County Line Road
FC05859.000

APPENDIX A
SITE LOCATION MAPS

Image Provided by ESRI



Boundaries of the Property are Approximate.

CTL | THOMPSON

SITE LOCATION - STREET MAP

4060 E County Line Road
Erie, CO 80516

PREPARED FOR: Skyline Builders
PROJ. MGR: M. Chalona
DRAWN BY: G. Doyle
DATE: 05/01/2012
PROJ. #: FC05859.000

Image Provided by ESRI

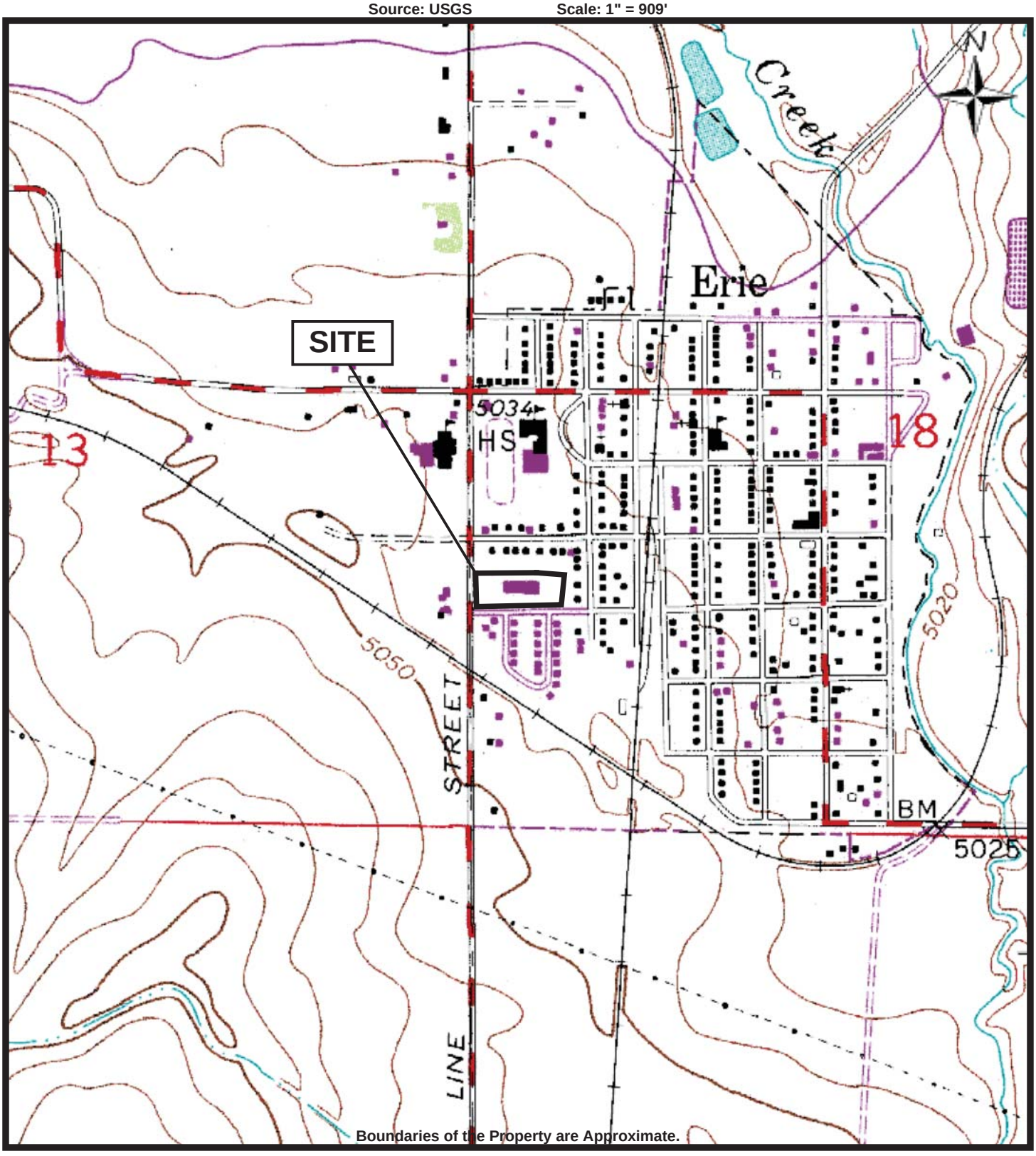
CTL | THOMPSON

SITE LOCATION - AERIAL PHOTOGRAPH

4060 E County Line Road
Erie, CO 80516

PREPARED FOR: Skyline Builders
PROJ. MGR: M. Chalona **DATE: 05/01/2012**
DRAWN BY: G. Doyle **PROJ. #: FC05859.000**

Image Provided by Environmental Data Resources, Inc.
Source: USGS Scale: 1" = 909'



Boundaries of the Property are Approximate.

CTL | THOMPSON

SITE LOCATION - TOPOGRAPHIC MAP

4060 E County Line Road
Erie, CO 80516

PREPARED FOR: Skyline Builders
PROJ. MGR: M. Chalona **DATE: 05/01/2012**
DRAWN BY: G. Doyle **PROJ. #: FC05859.000**

APPENDIX B

SITE PHOTOGRAPHS

Precast building and Site

Typical abandoned 55 drum onsite

Typical abandoned precast products onsite

View of southwest corner of Site

CTL|THOMPSON

Site Photographs – 4060 County Line Road

Erie, Colorado 80516
May 11, 2012

View of northwest corner of Site

Soil stockpiles at southwest corner of Site

Sump on southwest corner of precast building

Interior of precast building with concrete trough along south side

Interior of precast building with soil staining

Precast building typical office

Staining on precast wall

Typical contents of trough in precast building

Precast typical office on southwest side of building

Typical abandoned containers in precast building

Typical abandoned drum in precast building

Soil and debris pile to east of precast building

Stained soil around abandoned container

Typical abandoned precast vault lids

Typical solid waste and drums north side of precast building

Typical abandoned drum with labeling

Concrete vault and storage building on northeast property corner

Diesel sign on storage building exterior

Storage building interior

Abandoned equipment on east side of Site

Solid waste piles on east side of Site

Solid waste piles east side of Site

Concrete drive in storage and platform

Electrical chases

Adjacent property to north

Adjacent property to east

Adjacent properties to south

Adjacent property to west

APPENDIX C
AERIAL PHOTOGRAPHS

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.5
May 01, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography May 01, 2012

Target Property:

4060 E County Line Road

Erie, CO 80516

Year	***Scale***	***Details***	***Source***
1949	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Date: July 13, 1949	EDR
1955	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Date: September 04, 1955	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Date: October 04, 1966	EDR
1971	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: August 06, 1971	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: July 08, 1978	EDR
1983	Aerial Photograph. Scale: 1"=1000'	Panel #: 40105-A1, Erie, CO;/Flight Date: October 05, 1983	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: July 10, 1988	EDR
1993	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: June 30, 1993	EDR
1999	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Composite DOQQ - acquisition dates: October 04, 1999	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Year: 2006	EDR

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INQUIRY #: 3313445.5

YEAR: 1955

= 500'

N

INQUIRY #: 3313445.5
YEAR: 1966
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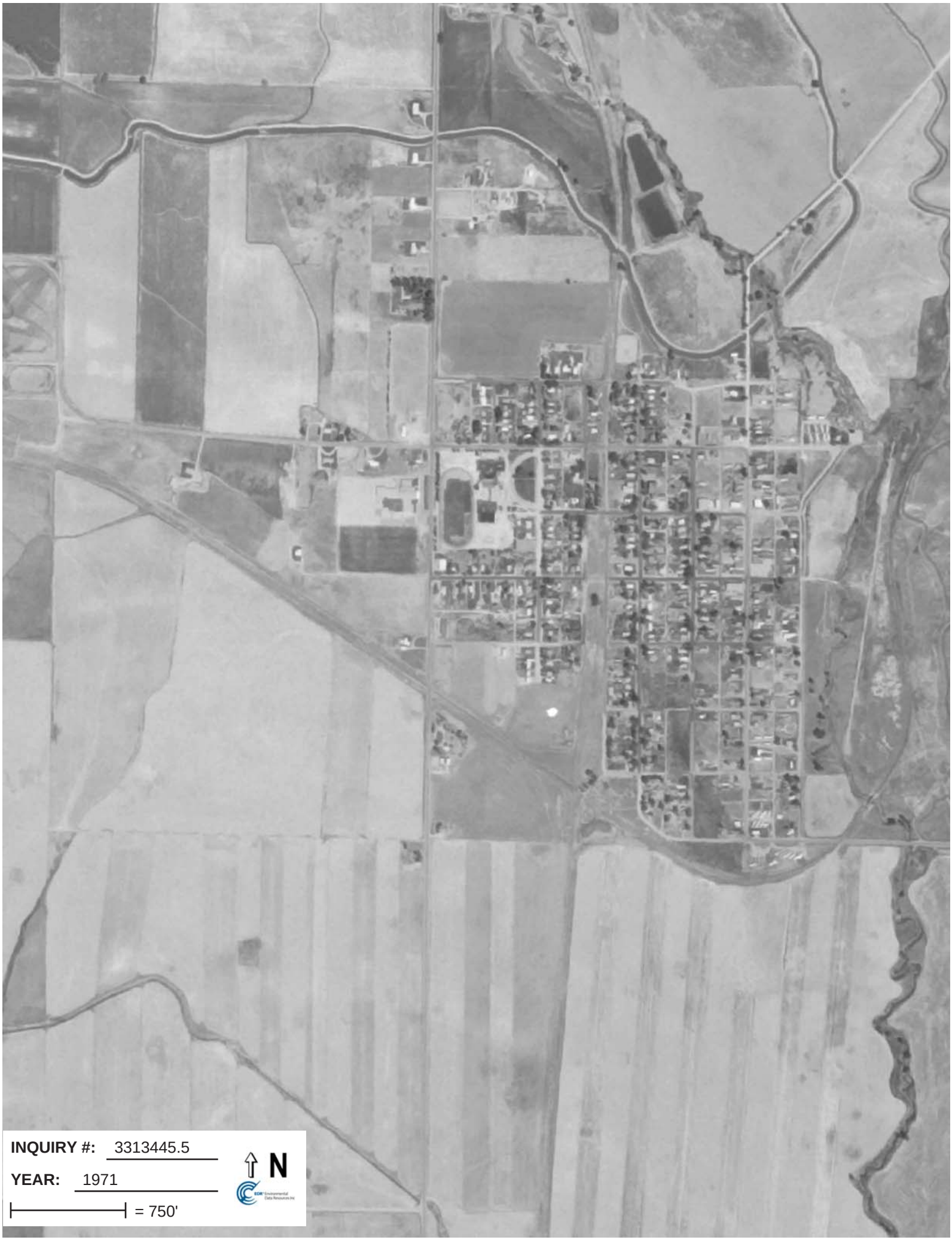
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YEAR: 1999

= 500'

N

INQUIRY #: 3313445.5
YEAR: 2005
= 500'
N

INQUIRY #: 3313445.5
YEAR: 2006
= 500'
N

APPENDIX D
SITE TOPOGRAPHIC MAPS

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.4
May 01, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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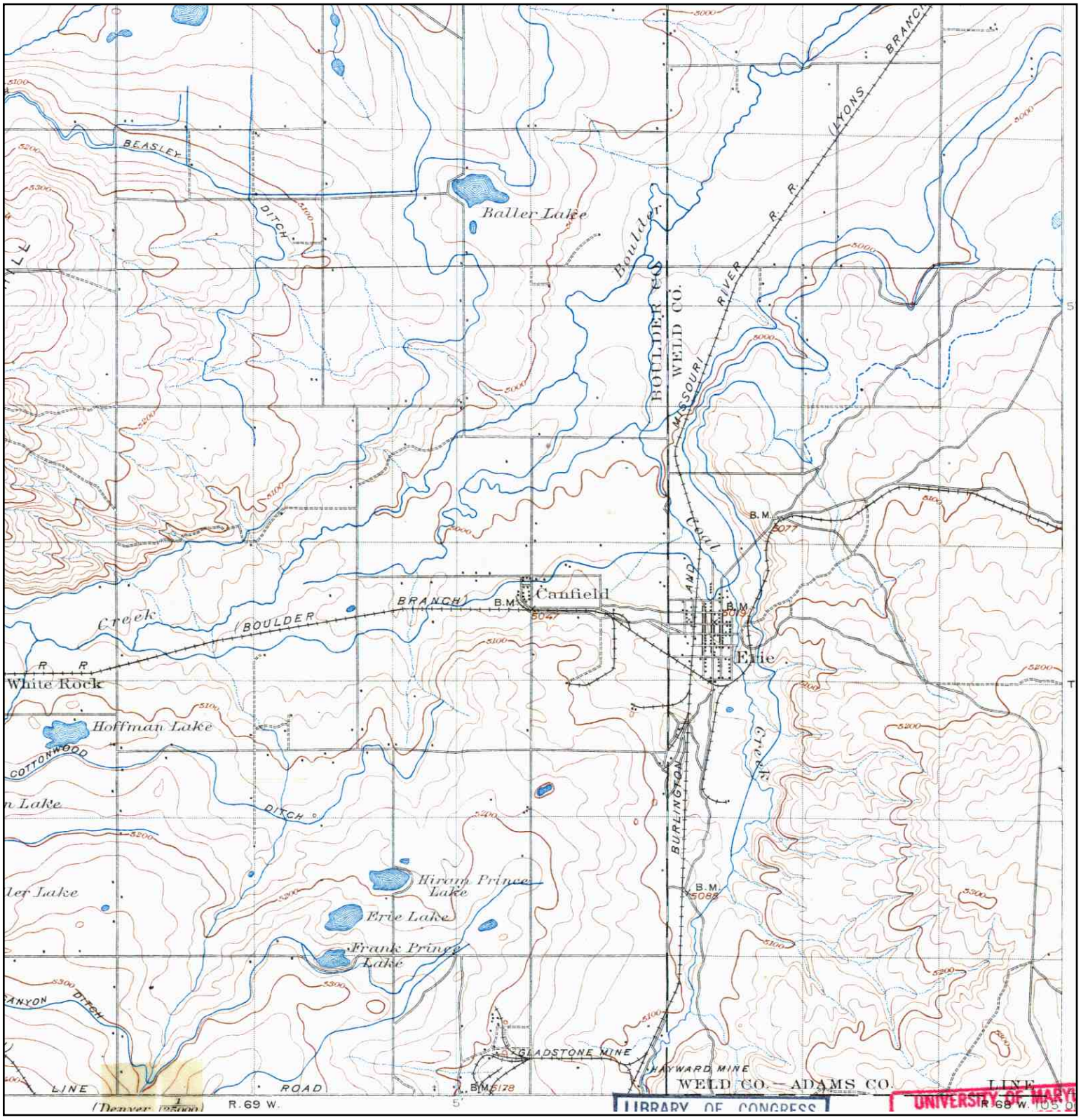
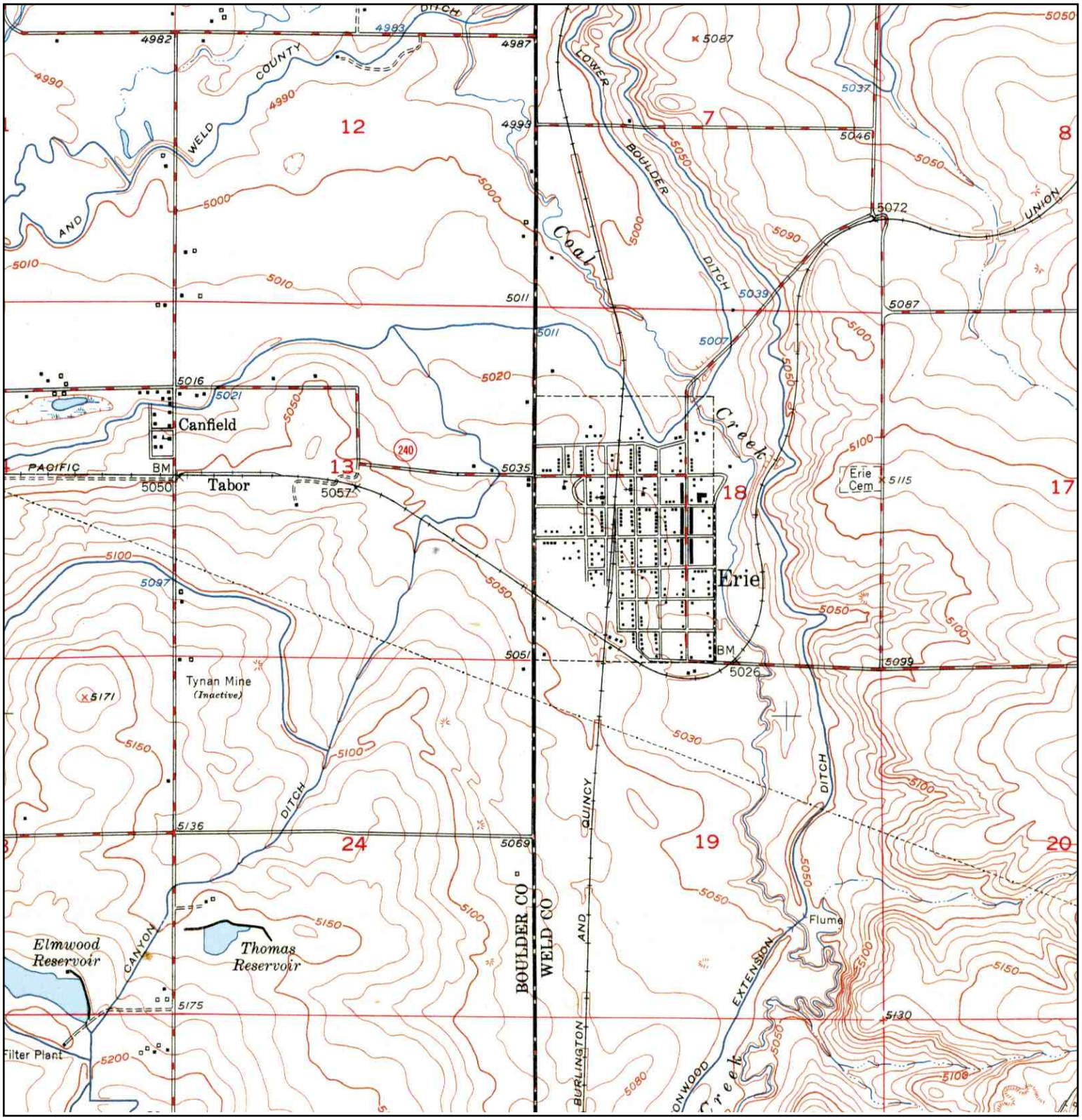
Historical Topographic Map



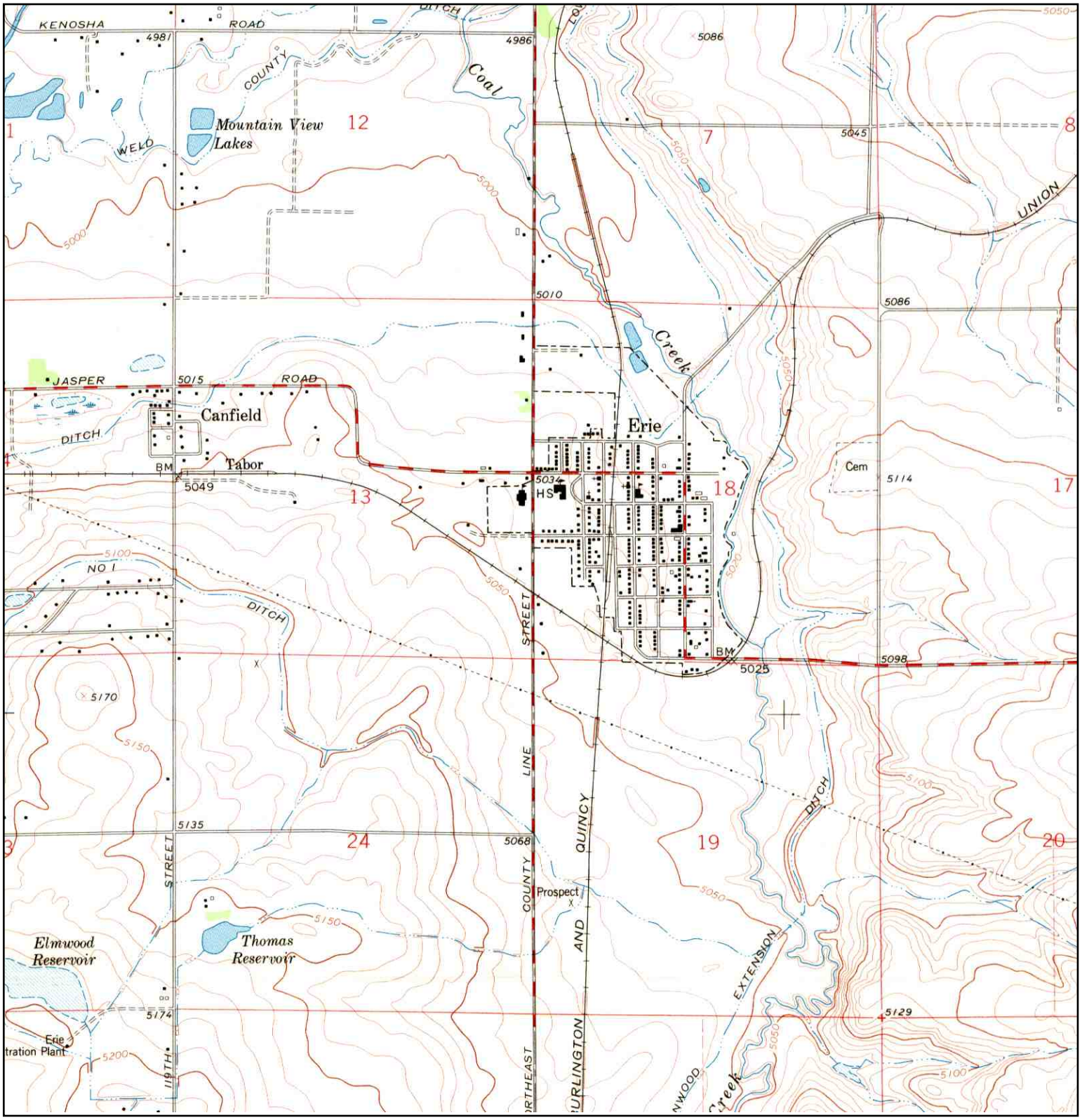
N	TARGET QUAD NAME: NIWOT MAP YEAR: 1904 SERIES: 15 SCALE: 1:62500	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

Historical Topographic Map



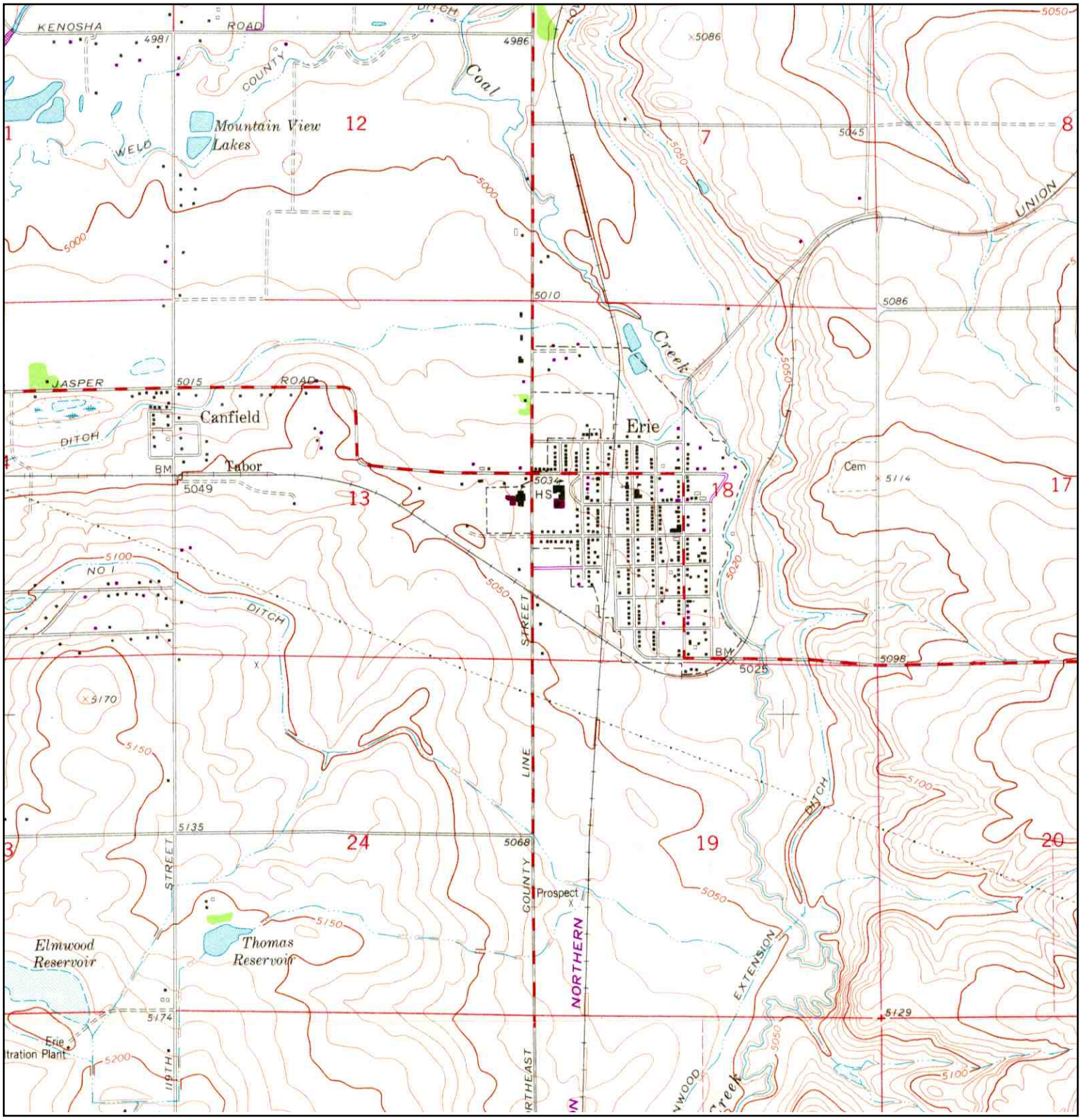
N	TARGET QUAD NAME: ERIE MAP YEAR: 1951 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

Historical Topographic Map



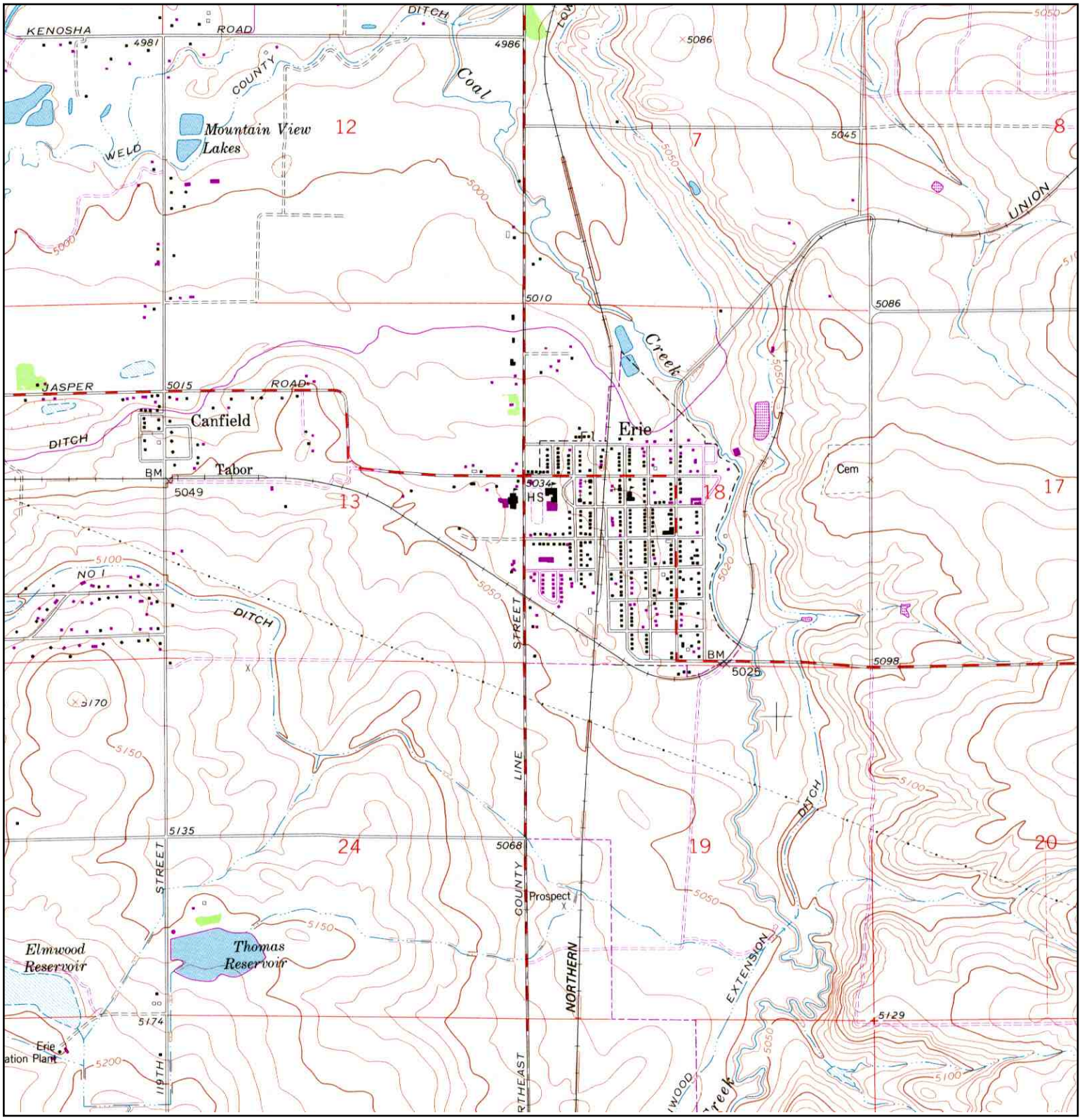
N	TARGET QUAD			
	NAME:	ERIE	SITE NAME: 4060 E County Line Road	CLIENT: CTL Thompson, Inc.
	MAP YEAR:	1967	ADDRESS: 4060 E County Line Road	CONTACT: Melissa Chalona
			Erie, CO 80516	INQUIRY#: 3313445.4
	SERIES:	7.5	LAT/LONG: 40.048 / -105.0544	RESEARCH DATE: 05/01/2012
	SCALE:	1:24000		

Historical Topographic Map



N	TARGET QUAD NAME: ERIE MAP YEAR: 1971 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

Historical Topographic Map



N	TARGET QUAD NAME: ERIE MAP YEAR: 1979 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

APPENDIX E

CITY DIRECTORIES

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.6
May 02, 2012

The EDR-City Directory Image Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR CITY DIRECTORY REPORT

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assistenvironmental professionals in evaluating potential liability on a target property resulting from past activities.EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

NO COVERAGE

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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APPENDIX F

CERTIFIED SANBORN MAP REPORT

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.3
May 01, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

5/01/12

Site Name:
4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

EDR Inquiry # 3313445.3

Client Name:
CTL Thompson, Inc.
351 Linden St. Suite 140
Fort Collins, CO 80524

Contact: Melissa Chalona

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by CTL Thompson, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 4060 E County Line Road
Address: 4060 E County Line Road
City, State, Zip: Erie, CO 80516
Cross Street:
P.O. # FC05859
Project: 4060 E County Line Road, Erie
Certification # BBC0-420D-80DF

Maps Provided:

1948

Sanborn® Library search results
Certification # BBC0-420D-80DF

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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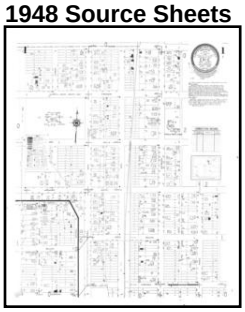
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1948 Source Sheets



Volume 1, Sheet 1

1948 Certified Sanborn Map

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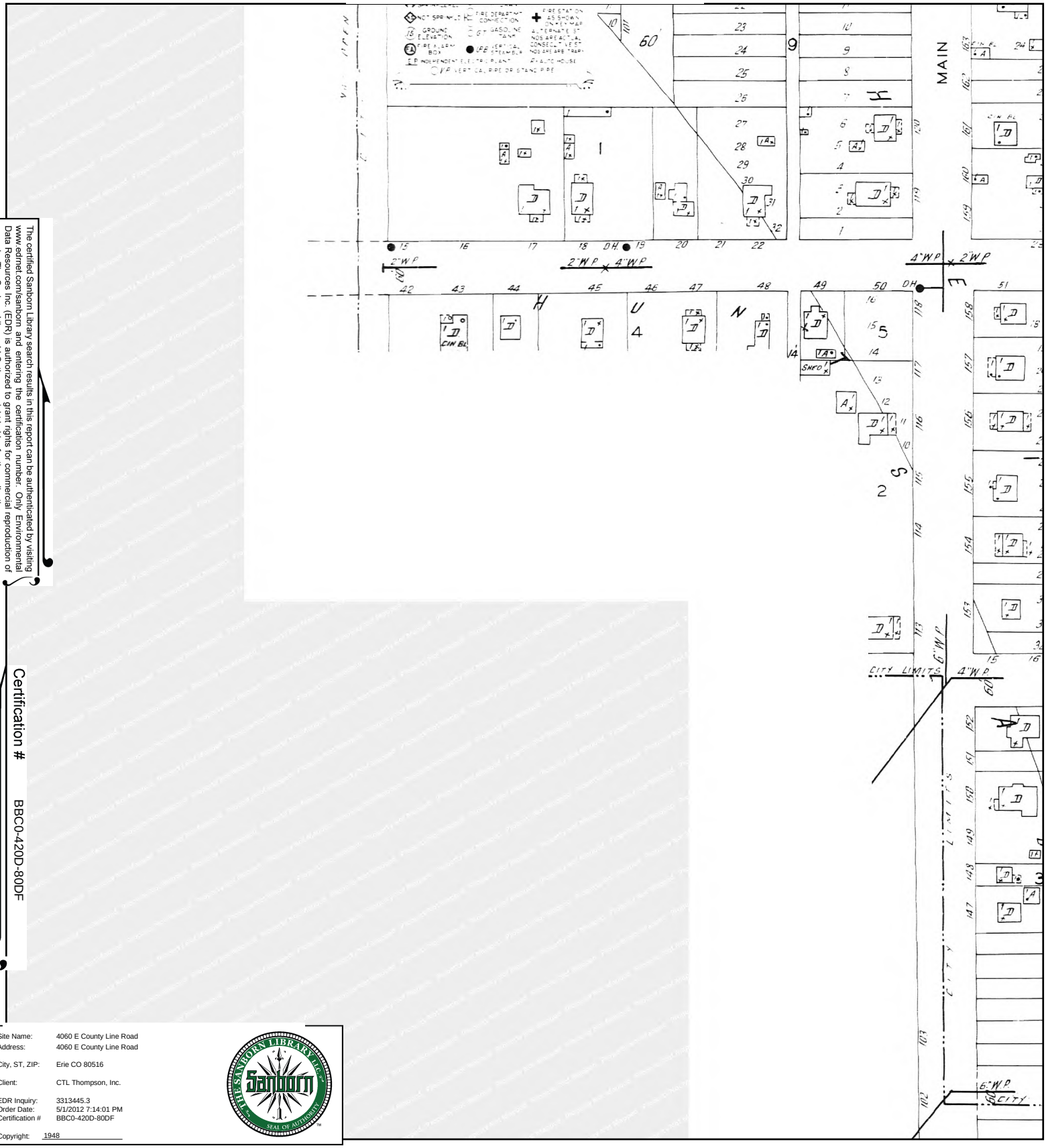
Certification # BBC0-420D-80DF

Site Name:	4060 E County Line Road
Address:	4060 E County Line Road
City, ST, ZIP:	Erie CO 80516
Client:	CTL Thompson, Inc.
EDR Inquiry:	3313445.3
Order Date:	5/1/2012 7:14:01 PM
Certification #	BBC0-420D-80DF
Copyright:	1948

1948 Certified Sanborn Map



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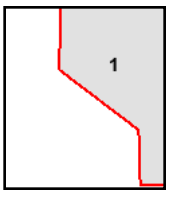
Certification # BBC0-420D-80DF

Site Name: 4060 E County Line Road
Address: 4060 E County Line Road
City, ST, ZIP: Erie CO 80516
Client: CTL Thompson, Inc.
EDR Inquiry: 3313445.3
Order Date: 5/1/2012 7:14:01 PM
Certification # BBC0-420D-80DF
Copyright: 1948

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 1

0 Feet 150 300 600

N

APPENDIX G

REGULATORY AGENCY DATABASE REPORT

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.2s
May 17, 2012

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4060 E COUNTY LINE ROAD
ERIE, CO 80516

COORDINATES

Latitude (North):	40.0480000 - 40° 2' 52.80''
Longitude (West):	105.0544000 - 105° 3' 15.84''
Universal Tranverse Mercator:	Zone 13
UTM X (Meters):	495359.6
UTM Y (Meters):	4432876.0
Elevation:	5040 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40105-A1 ERIE, CO
Most Recent Revision:	1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2009
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ERIE PRE-CAST 4060 NE COUNTY LINE RD ERIE, CO 80516	FINDS	N/A
ERIE PRECAST CONCRETE PRODUCTS 4060 WELD CR 1 ERIE, CO 80516	UST AST	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Sites & Facilities

State and tribal leaking storage tank lists

LAST ---------- Leaking Aboveground Storage Tank Listing
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL ---------- Environmental Real Covenants List

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup & Redevelopment Act Application Tracking Report

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
SWRCY ---------- Registered Recyclers Listing
HIST LF ---------- Historical Landfill List
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
CDL ---------- Meth Lab Locations
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information
LUCIS ---------- Land Use Control Information System

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CO ERNS ---------- Spills Database

Other Ascertainable Records

RCRA-NonGen ---------- RCRA - Non Generators

DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
METHANE SITE	Methane Site Investigations - Jefferson County 1980
Methane Investigation	Methane Gas & Swamp Findings
DRYCLEANERS	Drycleaner Facilities
NPDES	Permitted Facility Listing
AIRS	Permitted Facility & Emissions Listing
UMTRA	Uranium Mill Tailings Sites
ASBESTOS	Asbestos Abatement & Demolition Projects
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
COAL ASH DOE	Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 03/27/2012 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SKY PETROLEUM, LLC #06352	***4200 NE COUNTY LINE RD***	***NNW 1/8 - 1/4 (0.221 mi.)***	***B5***	***10***
Status: Closed				
HALLS GROCERY	***235 CHEESMAN ST***	***NE 1/4 - 1/2 (0.367 mi.)***	***10***	***13***
Status: Closed				
Status: State Lead				

LUST TRUST: Reimbursement application package. The 1989 Colorado General Assembly established Colorado's Petroleum Storage Tank Fund. The Fund reimburses eligible applicants for allowable costs incurred in cleaning up petroleum contamination from underground and aboveground petroleum storage tanks, as well as for third-party liability expenses. Remediation of contamination caused by railroad or aircraft fuel is not eligible for reimbursement. The Fund satisfies federal Environmental Protection Agency financial assurance requirements. Monies in the Fund come from various sources, predominantly the state environmental surcharge imposed on all petroleum products except railroad or aircraft fuel.

A review of the LUST TRUST list, as provided by EDR, and dated 03/19/2012 has revealed that there is 1 LUST TRUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HALLS GROCERY	***235 CHEESMAN ST***	***NE 1/4 - 1/2 (0.367 mi.)***	***10***	***13***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The source is the State Oil Inspector's Office's Tank List.

A review of the UST list, as provided by EDR, and dated 03/27/2012 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRIPLE M MASONRY INC	12640 JAY RD	NNW 1/8 - 1/4 (0.231 mi.)	7	12

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONOCO #06352	4200 NE COUNTY LINE RD	NNW 1/8 - 1/4 (0.221 mi.)	B4	9
UNKNOWN	785 CHEESMAN	N 1/8 - 1/4 (0.223 mi.)	B6	11

AST: The Aboveground Storage Tank database contains registered ASTs. The source is the State Oil Inspector's Office's Tank List.

A review of the AST list, as provided by EDR, and dated 03/27/2012 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ERIE MAINTENANCE SHOP	1149 TELLEEN	WSW 1/8 - 1/4 (0.193 mi.)	3	8

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 08/18/2011 has revealed that there are 2 MINES sites within approximately 0.25 miles of the target property.

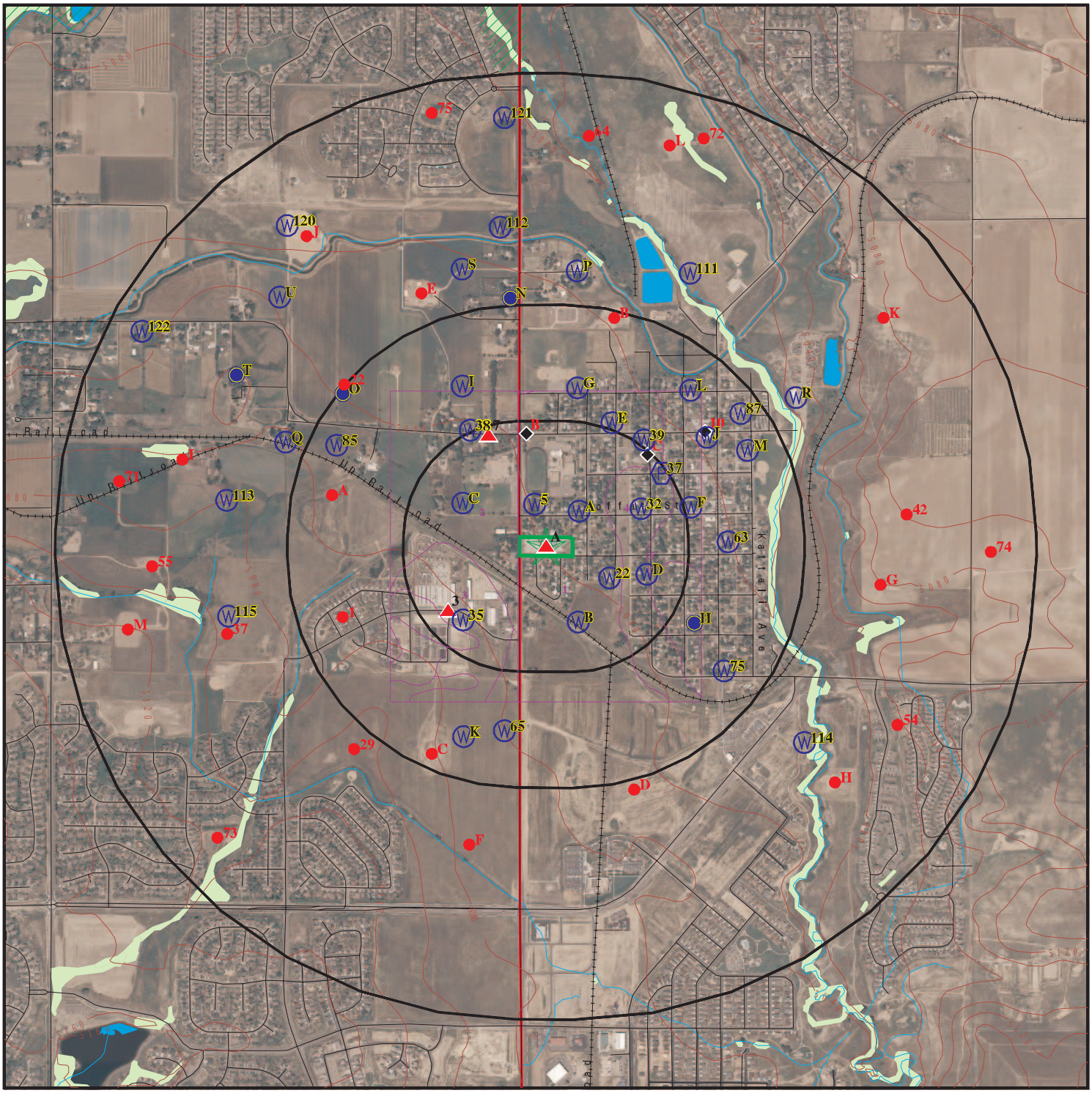
Lower Elevation	Address	Direction / Distance	Map ID	Page
BAILEY CONCRETE PRODS		NE 1/8 - 1/4 (0.243 mi.)	C8	12
C & M SAND AND GRAVEL		NE 1/8 - 1/4 (0.243 mi.)	C9	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 32 records.

Site Name	Database(s)
ASPHALT SPECIALTIES CO INC. ERIE P	SWRCY
FRONT RANGE LANDFILL	SWF/LF, FINANCIAL ASSURANCE
UST SYSTEM	LUST
WELD COUNTY PUBLIC HEALTH	UST
DACONO GRADER SHED	AST
VISTA RIDGE	RCRA-NonGen, FINDS
PUMPING TECHNOLOGY TRANSPORTATION	RCRA-NonGen, FINDS
STRESSCON DENVER METRO	RCRA-NonGen, FINDS
2240 I 25 E FRONTAGE RD	ERNS
INTERSECTION WELD COUNTY ROAD 10.5	ERNS
WELD COUNTY ROAD 1 & 10.5	ERNS
4558 WELD CO. ROAD 12	ERNS
5764 WELL COUNTY ROAD 7	ERNS
HWY 392 AT WELD COUNTY ROAD 43	ERNS
COUNTY ROAD 49 AND HIGHWAY 392 NOR	ERNS
COUNTY ROAD 49 AT COUNTY ROAD 22	ERNS
I76 FRONTAGE ROAD AT MILEPOST 30.4	ERNS
WELD COUNTY ROAD 23	ERNS
WELD COUNTY ROAD 23	ERNS
ENCANA - HELEN E UNIT 1	FINDS
MILE HIGH SHOOTING RANGE	FINDS, VCP
ENCANA -VESSELS MINERAL E 1&23-19	FINDS
ENCANA- OSKARSON E #1 UNIT	FINDS
ENCANA - THOMAS 7 & E BATTERY	FINDS, AIRS
WELD COUNTY WASTE DISPOSAL	HIST LF
ENCANA - HELEN E UNIT 1	AIRS
KERR-MCGEE - 62107 - COSSLETTE E G	AIRS
KERR-MCGEE 62186 GRAHAM E D 1	AIRS
ENCANA -VESSELS MINERAL E 1&23-19	AIRS
KP KAUFFMAN - KOCH 41-6, KENNETH E	AIRS
ENCANA- OSKARSON E #1 UNIT	AIRS
ENCANA - NELSON E UNIT 1	AIRS

OVERVIEW MAP - 3313445.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie CO 80516 LAT/LONG: 40.048 / 105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY #: 3313445.2s DATE: May 17, 2012 4:10 pm

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DETAIL MAP - 3313445.2s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie CO 80516 LAT/LONG: 40.048 / 105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY #: 3313445.2s DATE: May 17, 2012 4:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	1	1	NR	NR	2
LUST TRUST	0.500		0	0	1	NR	NR	1
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250	1	0	3	NR	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250	1	0	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CO ERNS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	2	NR	NR	NR	2
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
METHANE SITE	TP		NR	NR	NR	NR	NR	0
Methane Investigation	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants	1.000		0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

A1 **ERIE PRE-CAST** **FINDS** **1012078129**
Target **4060 NE COUNTY LINE RD** **N/A**
Property **ERIE, CO 80516**

Site 1 of 2 in cluster A

Actual:
5040 ft.

FINDS:

Registry ID: 110038634181

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

A2 **ERIE PRECAST CONCRETE PRODUCTS** **UST** **U003401177**
Target **4060 WELD CR 1** **AST** **N/A**
Property **ERIE, CO 80516**

Site 2 of 2 in cluster A

Actual:
5040 ft.

CO UST:
Facility ID: 3520

Owner:
Owner Id: 2115
Last Name: ERIE PRECAST CONCRETE PRODUCTS
First Name: Not reported
Middle Init: Not reported
Owner: ERIE PRECAST CONCRETE PRODUCTS
Owner Address: 4060 WELD CR
Owner City: ERIE
Owner State: CO
Owner County: BOULDER
Owner Zip: 80516

Tank Status: Permanently Closed
Date Tank Installed: 06/09/1986
Tank Age: Not reported
Tank Tag: 3520-3
Tank Chemical: Gasoline
Tank Type: UST

AST:
Tank Status: Permanently Closed
Date Tank Installed: 01/01/1980
Tank Age: Not reported
Facility ID: 3520
Owner ID: 2115
Tank Tag: 3520-1

ERIE PRECAST CONCRETE PRODUCTS (Continued) **U003401177**

Tank Contents: Diesel
Tank Type: AST

Tank Status: Permanently Closed
Date Tank Installed: 01/01/1980
Tank Age: Not reported
Facility ID: 3520
Owner ID: 2115
Tank Tag: 3520-2
Tank Contents: Diesel
Tank Type: AST

Owner:
Owner Id: 2115
Last Name: ERIE PRECAST CONCRETE PRODUCTS
First Name: Not reported
Middle Init: Not reported
Owner: ERIE PRECAST CONCRETE PRODUCTS
Owner Address: 4060 WELD CR
Owner City: ERIE
Owner State: CO
Owner County: BOULDER
Owner Zip: 80516

---

3 **ERIE MAINTENANCE SHOP** **AST** **A100184767**
WSW **1149 TELLEEN** **N/A**
1/8-1/4 **ERIE, CO 80516**
0.193 mi.
1019 ft.

Relative:
Higher

Actual:
5065 ft.

AST:
Tank Status: Permanently Closed
Date Tank Installed: 10/01/2000
Tank Age: Not reported
Facility ID: 15359
Owner ID: 7753
Tank Tag: 15359-1
Tank Contents: Diesel/Gasoline (Multi-Comp)
Tank Type: AST

Tank Status: Permanently Closed
Date Tank Installed: 10/01/2000
Tank Age: Not reported
Facility ID: 15359
Owner ID: 7753
Tank Tag: 15359-2
Tank Contents: Not Listed
Tank Type: AST

Owner:
Owner Id: 7753
Last Name: TOWN OF ERIE
First Name: Not reported
Middle Init: Not reported
Owner: TOWN OF ERIE
Owner Address: PO BOX 750
Owner City: ERIE

ERIE MAINTENANCE SHOP (Continued) **A100184767**

Owner State: CO
Owner County: BOULDER
Owner Zip: 80516

B4
NNW
1/8-1/4
0.221 mi.
1168 ft.

CONOCO #06352 **UST** **U003240455**
4200 NE COUNTY LINE RD **N/A**
ERIE, CO 80516

Site 1 of 3 in cluster B

Relative:
Lower

Actual:
5039 ft.

CO UST:
Facility ID: 10335

Owner:
Owner Id: 18313
Last Name: SKY PETROLEUM LLC
First Name: Not reported
Middle Init: Not reported
Owner: SKY PETROLEUM LLC
Owner Address: 7435 S HOUSTOUN WARING CR
Owner City: LITTLETON
Owner State: CO
Owner County: ARAPAHOE
Owner Zip: 80120

Tank Status: Permanently Closed
Date Tank Installed: 04/19/1981
Tank Age: Not reported
Tank Tag: 10335-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 04/19/1981
Tank Age: Not reported
Tank Tag: 10335-2
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Currently In Use
Date Tank Installed: 07/12/1994
Tank Age: 17.7217387430238
Tank Tag: 10335-3
Tank Chemical: Gasoline - Unleaded Regular (RUL)
Tank Type: UST

Tank Status: Currently In Use
Date Tank Installed: 07/12/1994
Tank Age: 17.7217387430238
Tank Tag: 10335-4
Tank Chemical: Gasoline - Premium (PUL)
Tank Type: UST

CONOCO #06352 (Continued) **U003240455**

Tank Status:	Currently In Use
Date Tank Installed:	07/12/1994
Tank Age:	17.7217387430238
Tank Tag:	10335-5
Tank Chemical:	Diesel
Tank Type:	UST

B5 **SKY PETROLEUM, LLC #06352** **LUST S107555130**
NNW **4200 NE COUNTY LINE RD** **AIRS N/A**
1/8-1/4 **ERIE, CO 80516**
0.221 mi.
1168 ft. **Site 2 of 3 in cluster B**

Relative:
Lower

Actual:
5039 ft.

LUST:

Status:	**Closed**
Facility Id:	10335
Event ID:	3064
Confirmed Release:	07/15/1994
Log Date:	07/15/1994

CO AIRS:

County/Plant ID:	013-0519
Contact Person:	DENNIS CHRISTENSEN
Contact Phone:	(303)913-4525
Latitude:	400306.21
Longitude:	1050321.52
SIC Primary:	5541
NAICS Primary:	447110
Unique Emmission Unit ID:	001
Construction Permit Number:	93BO1246S
Emission Unit Description:	3 UNDRGRND GASOLINE TANKS
Full Pollutant Name:	BENZENE
Site-wide Estimated Emissions:	5.0258999999999998E-2
Site-wide Estimated Emissions Units:	Tons Per Year

County/Plant ID:	013-0519
Contact Person:	DENNIS CHRISTENSEN
Contact Phone:	(303)913-4525
Latitude:	400306.21
Longitude:	1050321.52
SIC Primary:	5541
NAICS Primary:	447110
Unique Emmission Unit ID:	001
Construction Permit Number:	93BO1246S
Emission Unit Description:	3 UNDRGRND GASOLINE TANKS
Full Pollutant Name:	VOLATILE ORGANIC COMPOUNDS
Site-wide Estimated Emissions:	5.0258750000000001
Site-wide Estimated Emissions Units:	Tons Per Year

B6 **UNKNOWN** **UST** **U003400724**
North **785 CHEESMAN** **N/A**
1/8-1/4 **ERIE, CO 80516**
0.223 mi.
1178 ft. **Site 3 of 3 in cluster B**

Relative:
Lower

Actual:
5038 ft.

CO UST:
Facility ID: 7397

Owner:
Owner Id: 6116
Last Name: KAUFMAN
First Name: JOAN
Middle Init: Not reported
Owner: JOAN KAUFMAN
Owner Address: 801 INDEPENDENCE
Owner City: LONGMONT
Owner State: CO
Owner County: BOULDER
Owner Zip: 80501

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-1
Tank Chemical: Unknown
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-2
Tank Chemical: Unknown
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-3
Tank Chemical: Unknown
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-4
Tank Chemical: Unknown
Tank Type: UST

7
NNW
1/8-1/4
0.231 mi.
1219 ft.

TRIPLE M MASONRY INC
12640 JAY RD
ERIE, CO 80516

UST **U003241494**
N/A

Relative:
Higher

Actual:
5042 ft.

CO UST:
Facility ID: 6739

Owner:
Owner Id: 5391
Last Name: MUIR
First Name: ROY
Middle Init: B
Owner: ROY B MUIR
Owner Address: 417 JEFFERSON ST
Owner City: KIMBALL
Owner State: NE
Owner County: KIMBALL
Owner Zip: 69145

Tank Status: Permanently Closed
Date Tank Installed: 05/08/1977
Tank Age: Not reported
Tank Tag: 6739-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 05/08/1977
Tank Age: Not reported
Tank Tag: 6739-2
Tank Chemical: Diesel
Tank Type: UST

C8
NE
1/8-1/4
0.243 mi.
1282 ft.

BAILEY CONCRETE PRODS
BOULDER (County), CO
Site 1 of 2 in cluster C

MINES **1011133650**
N/A

Relative:
Lower

Actual:
5023 ft.

MINES:
Mine ID: 0502546
SIC code(s): 14410 00000 00000 00000 00000 00000
Entity name: ERIE PIT
Company: BAILEY CONCRETE PRODS
State FIPS code: 08
County FIPS code: 013
Status: 4
Status date: 19811023
Operation Class: non-Coal Mining
Number of shops: 0
Number of plants: 0
Latitude: 40 03 03
Longitude: 105 03 01

C9 **C & M SAND AND GRAVEL** **MINES** **1011133656**
NE **N/A**
1/8-1/4 **BOULDER (County), CO**
0.243 mi.
1282 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
5023 ft.

MINES:

Mine ID:	0502552
SIC code(s):	14410 00000 00000 00000 00000 00000
Entity name:	ERIE PIT
Company:	C & M SAND AND GRAVEL
State FIPS code:	08
County FIPS code:	013
Status:	4
Status date:	19900605
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	40 03 03
Longitude:	105 03 01

---

10 **HALLS GROCERY** **LUST** **U003124304**
NE **235 CHEESMAN ST** **LUST TRUST** **N/A**
1/4-1/2 **ERIE, CO 80516** **UST**
0.367 mi.
1940 ft.

Relative:
Lower

Actual:
5018 ft.

LUST:

Status:	**State Lead**
Facility Id:	3857
Event ID:	4035
Confirmed Release:	10/07/1992
Log Date:	10/07/1992
Status:	**Closed**
Facility Id:	3857
Event ID:	9167
Confirmed Release:	03/17/2003
Log Date:	03/21/2003

CO LUST TRUST:

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	4202
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	05/26/2000
Total Reimbursement:	$22,875.37
Net Reimbursement:	$22,852.37
FPR Date:	08/22/2000
Pay Voucher Date:	09/05/2000
Protest Number:	Not reported
Special Conditions:	Not reported

HALLS GROCERY (Continued) **U003124304**

Fund Analyst:	Cindee Garner-Floro
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8513
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	8379
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/30/2003
Total Reimbursement:	$15,097.75
Net Reimbursement:	$15,097.75
FPR Date:	01/12/2004
Pay Voucher Date:	01/22/2004
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15657
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/02/2007
Total Reimbursement:	$37,714.49
Net Reimbursement:	$37,714.49
FPR Date:	05/14/2007
Pay Voucher Date:	05/29/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035

HALLS GROCERY (Continued) **U003124304**

RAP ID:	15875
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	05/10/2007
Total Reimbursement:	$6,000.51
Net Reimbursement:	$5,998.36
FPR Date:	07/23/2007
Pay Voucher Date:	08/08/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	18183
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/01/2008
Total Reimbursement:	$13,527.13
Net Reimbursement:	$13,503.84
FPR Date:	01/30/2009
Pay Voucher Date:	02/10/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15121
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	12/11/2006

HALLS GROCERY (Continued) **U003124304**

Total Reimbursement:	$62,661.40
Net Reimbursement:	$62,661.40
FPR Date:	02/21/2007
Pay Voucher Date:	03/08/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	3512
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	07/29/1999
Total Reimbursement:	$47,985.91
Net Reimbursement:	$47,927.66
FPR Date:	10/25/1999
Pay Voucher Date:	11/18/1999
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	1858
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	02/21/1997
Total Reimbursement:	$36,952.87
Net Reimbursement:	$36,952.87
FPR Date:	07/28/1997
Pay Voucher Date:	08/19/1997
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox

HALLS GROCERY (Continued) **U003124304**

Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	2014
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	06/13/1997
Total Reimbursement:	$16,164.07
Net Reimbursement:	$16,162.57
FPR Date:	09/04/1997
Pay Voucher Date:	09/18/1997
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Cindee Garner-Floro
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8513
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	20836
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/11/2010
Total Reimbursement:	$7,712.72
Net Reimbursement:	$7,712.72
FPR Date:	06/02/2010
Pay Voucher Date:	06/16/2010
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	19856
Commissioned Date:	Not reported
Cap Status:	Not reported

HALLS GROCERY (Continued) **U003124304**

Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	08/11/2009
Total Reimbursement:	$14,189.59
Net Reimbursement:	$14,146.46
FPR Date:	10/26/2009
Pay Voucher Date:	11/12/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	18581
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	12/26/2008
Total Reimbursement:	$10,964.36
Net Reimbursement:	$10,964.36
FPR Date:	01/26/2009
Pay Voucher Date:	02/04/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	1638
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	09/26/1996
Total Reimbursement:	$15,817.82
Net Reimbursement:	$15,817.82
FPR Date:	01/22/1997

HALLS GROCERY (Continued) **U003124304**

Pay Voucher Date:	02/12/1997
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	2615
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	04/24/1998
Total Reimbursement:	$23,663.27
Net Reimbursement:	$23,538.27
FPR Date:	07/17/1998
Pay Voucher Date:	08/04/1998
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	19164
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/01/2009
Total Reimbursement:	$10,659.49
Net Reimbursement:	$10,598.18
FPR Date:	06/05/2009
Pay Voucher Date:	06/16/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

HALLS GROCERY (Continued) **U003124304**

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	3679
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	10/21/1999
Total Reimbursement:	$15,269.21
Net Reimbursement:	$14,808.78
FPR Date:	02/08/2000
Pay Voucher Date:	02/29/2000
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Carolyn Skaggs
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8514

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	4808
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	01/24/2001
Total Reimbursement:	$18,219.80
Net Reimbursement:	$18,219.80
FPR Date:	07/30/2001
Pay Voucher Date:	08/16/2001
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	19101
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36

HALLS GROCERY (Continued) **U003124304**

Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/19/2009
Total Reimbursement:	$3,264.46
Net Reimbursement:	$3,232.63
FPR Date:	05/04/2009
Pay Voucher Date:	06/08/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15566
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/12/2007
Total Reimbursement:	$49,248.23
Net Reimbursement:	$49,248.23
FPR Date:	05/07/2007
Pay Voucher Date:	05/23/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	6246
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	06/19/2002
Total Reimbursement:	$8,370.36
Net Reimbursement:	$8,161.11
FPR Date:	08/28/2002
Pay Voucher Date:	09/11/2002
Protest Number:	Not reported
Special Conditions:	Not reported

HALLS GROCERY (Continued) **U003124304**

Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	16554
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/15/2007
Total Reimbursement:	$18,932.54
Net Reimbursement:	$18,927.29
FPR Date:	12/05/2007
Pay Voucher Date:	12/26/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15507
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/02/2007
Total Reimbursement:	$3,515.23
Net Reimbursement:	$3,513.18
FPR Date:	04/26/2007
Pay Voucher Date:	05/15/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035

HALLS GROCERY (Continued) **U003124304**

RAP ID:	11412
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/07/2005
Total Reimbursement:	$13,822.59
Net Reimbursement:	$13,009.34
FPR Date:	07/21/2005
Pay Voucher Date:	08/08/2005
Protest Number:	77-316
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	Not reported
Event ID:	4035
RAP ID:	449
Commissioned Date:	05/05/1995
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Original
Rap Status:	Approved
Rap Filed Date:	10/12/1993
Total Reimbursement:	$28,610.10
Net Reimbursement:	$17,785.10
FPR Date:	01/01/1994
Pay Voucher Date:	Not reported
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	13671
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/23/2006

HALLS GROCERY (Continued) **U003124304**

Total Reimbursement:	$12,028.25
Net Reimbursement:	$12,023.40
FPR Date:	09/28/2006
Pay Voucher Date:	10/17/2006
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15024
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	11/22/2006
Total Reimbursement:	$10,837.96
Net Reimbursement:	$10,829.37
FPR Date:	02/05/2007
Pay Voucher Date:	02/21/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	22463
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	02/17/2011
Total Reimbursement:	$4,858.05
Net Reimbursement:	$4,858.05
FPR Date:	08/18/2011
Pay Voucher Date:	09/08/2011
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station

HALLS GROCERY (Continued) **U003124304**

Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	Not reported
Event ID:	4035
RAP ID:	637
Commissioned Date:	05/05/1995
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	06/14/1994
Total Reimbursement:	$8,796.35
Net Reimbursement:	$8,796.35
FPR Date:	01/01/1994
Pay Voucher Date:	Not reported
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	21907
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/28/2010
Total Reimbursement:	$14,292.08
Net Reimbursement:	$14,292.08
FPR Date:	02/07/2011
Pay Voucher Date:	02/23/2011
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	7683

HALLS GROCERY (Continued) **U003124304**

Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	05/21/2003
Total Reimbursement:	$10,928.57
Net Reimbursement:	$10,829.57
FPR Date:	08/07/2003
Pay Voucher Date:	08/15/2003
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Chris Dufex
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8515

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	21819
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/12/2010
Total Reimbursement:	$7,975.65
Net Reimbursement:	$7,975.65
FPR Date:	12/13/2010
Pay Voucher Date:	01/03/2011
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	21274
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	06/09/2010

HALLS GROCERY (Continued) **U003124304**

Total Reimbursement:	$10,689.73
Net Reimbursement:	$10,689.73
FPR Date:	11/03/2010
Pay Voucher Date:	11/18/2010
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	14343
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	07/21/2006
Total Reimbursement:	$10,956.42
Net Reimbursement:	$10,948.95
FPR Date:	11/17/2006
Pay Voucher Date:	12/06/2006
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	9165
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/19/2004
Total Reimbursement:	$12,491.72
Net Reimbursement:	$12,491.72
FPR Date:	07/12/2004
Pay Voucher Date:	07/21/2004
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station

HALLS GROCERY (Continued) **U003124304**

Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	12918
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	11/23/2005
Total Reimbursement:	$16,576.48
Net Reimbursement:	$16,393.29
FPR Date:	02/28/2006
Pay Voucher Date:	03/24/2006
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	17478
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/30/2008
Total Reimbursement:	$12,470.04
Net Reimbursement:	$12,470.04
FPR Date:	05/28/2008
Pay Voucher Date:	06/10/2008
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	17759
Commissioned Date:	Not reported

HALLS GROCERY (Continued) **U003124304**

Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	07/03/2008
Total Reimbursement:	$11,631.50
Net Reimbursement:	$11,631.50
FPR Date:	09/15/2008
Pay Voucher Date:	10/06/2008
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	6560
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	09/24/2002
Total Reimbursement:	$7,277.48
Net Reimbursement:	$7,277.48
FPR Date:	01/23/2003
Pay Voucher Date:	02/05/2003
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	1120
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	08/25/1995
Total Reimbursement:	$3,963.06
Net Reimbursement:	$3,963.06

HALLS GROCERY (Continued) **U003124304**

FPR Date:	01/18/1996
Pay Voucher Date:	01/31/1996
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	20289
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	11/17/2009
Total Reimbursement:	$10,456.17
Net Reimbursement:	$10,428.19
FPR Date:	01/06/2010
Pay Voucher Date:	01/14/2010
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	17038
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	01/24/2008
Total Reimbursement:	$11,708.71
Net Reimbursement:	$11,707.15
FPR Date:	03/19/2008
Pay Voucher Date:	03/27/2008
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

HALLS GROCERY (Continued) **U003124304**

CO UST:
Facility ID: 6393

Owner:
Owner Id: 17702
Last Name: UNKNOWN #2
First Name: Not reported
Middle Init: Not reported
Owner: UNKNOWN #2
Owner Address: UNKNOWN
Owner City: ARVADA
Owner State: CO
Owner County: JEFFERSON
Owner Zip: 80002

Tank Status: Permanently Closed
Date Tank Installed: 05/16/1978
Tank Age: Not reported
Tank Tag: 6393-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 05/16/1978
Tank Age: Not reported
Tank Tag: 6393-2
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 05/16/1978
Tank Age: Not reported
Tank Tag: 6393-3
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 10/01/1978
Tank Age: Not reported
Tank Tag: 3857-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 10/01/1978
Tank Age: Not reported
Tank Tag: 3857-2
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed

HALLS GROCERY (Continued) **U003124304**

Date Tank Installed:	10/01/1978
Tank Age:	Not reported
Tank Tag:	3857-3
Tank Chemical:	Gasoline
Tank Type:	UST

Count: 32 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOMFIELD	S110341005	ENCANA - HELEN E UNIT 1	SE SE SEC 23	80516	AIRS
BROOMFIELD	1014682215	ENCANA - HELEN E UNIT 1	SE SE SEC 23	80516	FINDS
DACONO	S110341112	KERR-MCGEE - 62107 - COSSLETTE E G	CSW SEC 1	80516	AIRS
DACONO	S109896333	KERR-MCGEE 62186 GRAHAM E D 1	NWSW-12-1N-68W	80516	AIRS
ERIE	S102719746	UST SYSTEM	3159 RT 2	80516	LUST
ERIE	2010938662	2240 I 25 E FRONTAGE RD	2240 I 25 FRONTAGE RD E		ERNS
ERIE	U003978091	WELD COUNTY PUBLIC HEALTH	5500 HWY 52	80516	UST
ERIE	1007690876	MILE HIGH SHOOTING RANGE	1745 HWY 7	80516	FINDS, VCP
ERIE	1004680529	VISTA RIDGE	1745 COLORADO HWY 7	80516	RCRA-NonGen, FINDS
ERIE	99628780	INTERSECTION WELD COUNTY ROAD 10.5	INTERSECTION WELD COUNTY ROAD		ERNS
ERIE	1014681478	ENCANA -VESSELS MINERAL E 1&23-19	NWSW SEC 19	80516	FINDS
ERIE	S110341015	ENCANA -VESSELS MINERAL E 1&23-19	NWSW SEC 19	80516	AIRS
ERIE	S111025063	KP KAUFFMAN - KOCH 41-6, KENNETH E	SENE 6	80516	AIRS
ERIE	A100270398	DACONO GRADER SHED	5510 STATE HIGHWAY 52	80516	AST
ERIE	S110079785	ENCANA- OSKARSON E #1 UNIT	SW SW SEC 33	80516	AIRS
ERIE	1009800913	ENCANA- OSKARSON E #1 UNIT	SW SW SEC 33 T2N R68W	80516	FINDS
ERIE	1007488006	ENCANA - THOMAS 7 & E BATTERY	NE SW SEC 7	80516	FINDS, AIRS
ERIE	S111025205	ENCANA - NELSON E UNIT 1	SWSW SEC 32	80516	AIRS
ERIE	2008874297	WELD COUNTY ROAD 1 & 10.5	WELD COUNTY ROAD 1 & 10.5		ERNS
ERIE	2005626348	4558 WELD CO. ROAD 12	4558 WELD CO. ROAD 12		ERNS
ERIE	1000347734	PUMPING TECHNOLOGY TRANSPORTATION	1450 WELD COUNTY ROAD 6	80516	RCRA-NonGen, FINDS
ERIE	1001217781	STRESSCON DENVER METRO	5434 WELD COUNTY RD 12	80516	RCRA-NonGen, FINDS
ERIE	S110140880	ASPHALT SPECIALTIES CO INC. ERIE P	3220 WELD COUNTY RD	80516	SWRCY
ERIE	S102448988	FRONT RANGE LANDFILL	1830 WELD COUNTY RD	80516	SWF/LF, FINANCIAL ASSURANCE
ERIE	2005601697	5764 WELL COUNTY ROAD 7	5764 WELL COUNTY ROAD 7	80516	ERNS
WELD COUNTY	2011980235	HWY 392 AT WELD COUNTY ROAD 43	HWY 392 AT WELD COUNTY ROAD 43		ERNS
WELD COUNTY	2010930522	COUNTY ROAD 49 AND HIGHWAY 392 NOR	COUNTY ROAD 49 AND HIGHWAY 392		ERNS
WELD COUNTY	2011974030	COUNTY ROAD 49 AT COUNTY ROAD 22	COUNTY ROAD 49 AT COUNTY ROAD		ERNS
WELD COUNTY	2011968397	I76 FRONTAGE ROAD AT MILEPOST 30.4	I76 FRONTAGE ROAD AT MILEPOST		ERNS
WELD COUNTY	S100796636	WELD COUNTY WASTE DISPOSAL	5019 WELD CR 35		HIST LF
WELD COUNTY	2009903171	WELD COUNTY ROAD 23	WELD COUNTY ROAD 23		ERNS
WELD COUNTY	2008903171	WELD COUNTY ROAD 23	WELD COUNTY ROAD 23		ERNS

APPENDIX H

ENVIRONMENTAL SITE QUESTIONAIRES

Phase I Environmental Site Assessment
Client Questionnaire

CTL | THOMPSON

Completion of this form will provide us with basic information related to the property and will assist us in following the requests for records and other project tasks. Please complete the form to the best of your knowledge and return it to us in a timely manner.

- Please provide a site plan that accurately shows the property boundaries.
- Are there any critical report deadlines we should be aware of? No
- Reason for performing this Phase I ESA: Buyer Request
- Planned property use: Unknown
- Will the property be serviced by municipal water?: Unknown
- Site owner's contact information (A formal environmental questionnaire will be forwarded to the property owner):

Representatives Name: Tom Beckius / Clark Foster
Company: INA Group LLC
Address: 6333 Apples Way #115, Lincoln NE 68516
Phone / Fax: 402-435-0011, Fax 402-435-0088
Email: tbeckius@mccrealty.com

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the Phase I ESA report user must provide the following information (if available) to the environmental professional preparing the report.

- Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

No

- Are you aware of any Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

No

- Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

- Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, is the lower purchase price because contamination is known or believed to be present at the property?

Yes - no difference

- Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? Such information may include knowledge of past site uses, chemicals storage on the site, hazardous materials spills, or previous environmental cleanups at the site or in the surrounding area. If so, please explain.

No

- Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Name: [signature]
Title: Representative
Date: 5/2/12

One Buyers have stated presence of an underground tank.

If Additional Space is Needed, Please Attach Written Responses

CTL | THOMPSON INCORPORATED

SUBJECT: OWNER QUESTIONNAIRE
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Sir/Madam

CTL | Thompson has been retained to perform a Phase I Environmental Site Assessment for a property in which you have been identified as the owner. Phase I Environmental Site Assessments are a due diligence tool that are often used in property acquisitions and property transfers. This questionnaire is part of the Phase I process, and has been prepared to comply with the American Society for Testing and Materials' Standard Practice for Environmental Site Assessments (ASTM E 1527). These questions have been designed to obtain background information on the property and to determine whether you are aware of environmental issues on or near the property. Please answer the following questions completely and to the best of your knowledge. We appreciate your assistance in working with us to complete this questionnaire. My contact information is at the end of the letter if you should have any questions.

Property Address: 4060 County Line Rd, Erie, Co

- Have there been any previous environmental investigations performed at the site? If yes, are reports available?

  Unknown

- How long have you been associated with the site?

  Owner for a few months - approx. 4 months

- List current site owner(s) and dates of ownership:

  INA Group, LLC - & owner since 12/2011

- List previous site owner(s) and dates of ownership, if known:

  Unknown

- Please state the current use(s) of the site and any on-site structures (houses, buildings, sheds, etc.):

  Vacant; commercial building

- List any known past uses of the site:

  Unknown

- Are you aware of environmental concerns on adjacent parcels to the site (i.e. service stations, dry cleaners, industrial facilities, etc.)?

  Unknown

▼ Were or are any of these items located on-site:

Underground storage tanks	☒ Yes	☐ No	☐ Don't Know
Aboveground storage tanks	☐ Yes	☐ No	☒ Don't Know
Boilers (Non-Natural Gas)	☐ Yes	☐ No	☒ Don't Know
Pesticide Mixing/Use Areas	☐ Yes	☐ No	☒ Don't Know
Cultivated Land, Crops, or Orchards (specify type below)	☐ Yes	☐ No	☒ Don't Know
Drains, Sumps, or Pits	☐ Yes	☐ No	☒ Don't Know
Elevators	☐ Yes	☐ No	☒ Don't Know
Emergency Generators	☐ Yes	☐ No	☒ Don't Know
Equipment or Vehicle Maintenance Areas	☐ Yes	☐ No	☒ Don't Know
Hazardous Material Storage Areas	☐ Yes	☐ No	☒ Don't Know
Hydraulic Lifts	☐ Yes	☐ No	☒ Don't Know
Incineration Areas	☐ Yes	☐ No	☒ Don't Know
Oil Water Separators or Clarifiers	☐ Yes	☐ No	☒ Don't Know
Petroleum Pipelines	☐ Yes	☐ No	☒ Don't Know
Railroad Lines	☐ Yes	☐ No	☒ Don't Know
Solid Waste or Landfill Disposal Areas	☐ Yes	☐ No	☒ Don't Know
Stockpiles of Soil and Debris	☐ Yes	☐ No	☒ Don't Know
Transformers	☐ Yes	☐ No	☒ Don't Know
Vehicle Wash Areas	☐ Yes	☐ No	☒ Don't Know
Waste Water Discharge and/or Treatment Systems	☐ Yes	☐ No	☒ Don't Know
Wells (Agricultural or Water Supply)	☐ Yes	☐ No	☒ Don't Know
Wells (Monitoring or Dry)	☐ Yes	☐ No	☒ Don't Know
Wells (Natural Gas or Oil)	☐ Yes	☐ No	☒ Don't Know

If yes to any of the above, please briefly describe: Buyer has stated presence of underground storage tank. Seller (LNA Group) has never been to the site and has no actual knowledge of such.

- How is water supplied to the property (i.e., public system, on-site well)?

Unknown

- Are there any sewage disposal systems on-site (i.e., septic tanks, leachfield systems, sanitary sewer)?

Unknown

- Have there been, or are there currently, any hazardous substances used, handled, or stored on the property (i.e., Pesticides, gasoline, oils, solvents, etc.)? If yes, describe how the material is used, stored and disposed.

Unknown

- Is any chemical waste disposed to the sanitary sewer?

Unknown

- Have there been any leaks or spills of hazardous materials on the property?

Unknown

- Has your business received a violation notice regarding hazardous materials usage, storage or disposal practices?

No

- Have imported soils, debris, or other materials been placed or buried on-site?

Unknown

- Is there anything else regarding the property that you think we may want to know from an environmental or engineering perspective?

No

- If we may contact them, please provide names and phone numbers of current or past occupants who may have additional knowledge of the site:

Unknown

Signed: _____ **Date:** May 2, 2012

Printed Name: Clark Foster **Title:** Managing Member

Company: INA Group

If you have any questions, or would like to respond by phone, please call Melissa Chalona at (970) 206-9455 or by email: mchalona@ctlthompson.com.

Very truly yours,
CTL|THOMPSON, INC.

Melissa L. Chalona, P.E.
Environmental Project Manager

CTL | THOMPSON

SUBJECT: OWNER QUESTIONNAIRE
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Sir/Madam

CTL | Thompson has been retained to perform a Phase I Environmental Site Assessment for a property in which you have been identified as the owner. Phase I Environmental Site Assessments are a due diligence tool that are often used in property acquisitions and property transfers. This questionnaire is part of the Phase I process, and has been prepared to comply with the American Society for Testing and Materials' Standard Practice for Environmental Site Assessments (ASTM E 1527). These questions have been designed to obtain background information on the property and to determine whether you are aware of environmental issues on or near the property. Please answer the following questions completely and to the best of your knowledge. We appreciate your assistance in working with us to complete this questionnaire. My contact information is at the end of the letter if you should have any questions.

Property Address: 4060 County Line Rd, Erie Co.

- Have there been any previous environmental investigations performed at the site? If yes, are reports available?
  UNKNOWN
- How long have you been associated with the site?
  2 MONTHS, PREVIOUSLY WE KNEW THE OPERATOR OF THE FACILITY AND WE HAD PURCHASED CONC. TANKS
- List current site owner(s) and dates of ownership:
  TOM BECKIUS 12/2011 - AQUIRED PROPERTY FROM TAX LIENS & TREASURES DEED.
- List previous site owner(s) and dates of ownership, if known:
  Cheryl ZURUBA - 1980's - 2011 (HUSBAND DIED 2002 - WAS the OPERATOR UNTIL HIS DEATH)
  720-300-9980
- Please state the current use(s) of the site and any on-site structures (houses, buildings, sheds, etc.):
  VACANT / ABANDONED
- List any known past uses of the site:
  ERIE PRECAST - CONCRETE TANKS & MANHOLE POUR & FORM
- Are you aware of environmental concerns on adjacent parcels to the site (i.e. service stations, dry cleaners, industrial facilities, etc.)?
  UNKNOWN

~~STEVE~~ Cheryl ZURUBA HAS EXTENSIVE KNOWLEDGE OF THE SITE AND CAN GIVE YOU NAMES OF PAST EMPLOYEES WHO COULD ALSO GIVE YOU GOOD INFORMATION.

351 Linden Street, #140 | Fort Collins, Colorado 80524 | Telephone: 970-206-9455; Fax: 970-206-9441

▼ Were or are any of these items located on-site:

Underground storage tanks	☑ Yes	☐ No	☐ Don't Know
Aboveground storage tanks	☑ Yes	☐ No	☐ Don't Know
Boilers (Non-Natural Gas)	☐ Yes	☐ No	☑ Don't Know
Pesticide Mixing/Use Areas	☐ Yes	☐ No	☑ Don't Know
Cultivated Land, Crops, or Orchards (specify type below)	☐ Yes	☐ No	☑ Don't Know
Drains, Sumps, or Pits	☐ Yes	☐ No	☑ Don't Know
Elevators	☐ Yes	☐ No	☑ Don't Know
Emergency Generators	☐ Yes	☐ No	☑ Don't Know
Equipment or Vehicle Maintenance Areas	☐ Yes	☐ No	☑ Don't Know
Hazardous Material Storage Areas	☐ Yes	☐ No	☑ Don't Know
Hydraulic Lifts	☐ Yes	☐ No	☑ Don't Know
Incineration Areas	☐ Yes	☐ No	☑ Don't Know
Oil Water Separators or Clarifiers	☐ Yes	☐ No	☑ Don't Know
Petroleum Pipelines	☐ Yes	☐ No	☑ Don't Know
Railroad Lines	☐ Yes	☐ No	☑ Don't Know
Solid Waste or Landfill Disposal Areas	☐ Yes	☐ No	☑ Don't Know
Stockpiles of Soil and Debris	☐ Yes	☐ No	☑ Don't Know
Transformers	☐ Yes	☐ No	☑ Don't Know
Vehicle Wash Areas	☐ Yes	☐ No	☑ Don't Know
Waste Water Discharge and/or Treatment Systems	☐ Yes	☐ No	☑ Don't Know
Wells (Agricultural or Water Supply)	☐ Yes	☐ No	☑ Don't Know
Wells (Monitoring or Dry)	☐ Yes	☐ No	☑ Don't Know
Wells (Natural Gas or Oil)	☐ Yes	☐ No	☑ Don't Know

If yes to any of the above, please briefly describe:

We have heard that there are underground tanks onsite. Location unknown. This site operated as a precast concrete plant for more than 20 yrs.

▼ How is water supplied to the property (i.e., public system, on-site well)?

PUBLIC WATER SUPPLY ? TOWN

▼ Are there any sewage disposal systems on-site (i.e., septic tanks, leachfield systems, sanitary sewer)?

UNKNOWN

▼ Have there been, or are there currently, any hazardous substances used, handled, or stored on the property (i.e., Pesticides, gasoline, oils, solvents, etc.)? If yes, describe how the material is used, stored and disposed.

VARIOUS BARRELS ARE ON SITE, WITH UNKNOWN CONTENTS.

▼ Is any chemical waste disposed to the sanitary sewer?

UNKNOWN

▼ Have there been any leaks or spills of hazardous materials on the property?

UNKNOWN

▼ Has your business received a violation notice regarding hazardous materials usage, storage or disposal practices?

N/A

▼ Have imported soils, debris, or other materials been placed or buried on-site?

UNKNOWN

▼ Is there anything else regarding the property that you think we may want to know from an environmental or engineering perspective?

Form oil, Machinery Repair

▼ If we may contact them, please provide names and phone numbers of current or past occupants who may have additional knowledge of the site:

Signed: _____ **Date:** 5.3.12

Printed Name: JD Parker **Title:** VP

Company: Skyline Builders, INC

If you have any questions, or would like to respond by phone, please call Melissa Chalona at (970) 206-9455 or by email: mchalona@ctlthompson.com.

Very truly yours,
CTL|THOMPSON, INC.

Melissa L. Chalona, P.E.
Environmental Project Manager

Phase I Environmental Site Assessment
Client Questionnaire

CTL | THOMPSON

Completion of this form will provide us with basic information related to the property and will assist us in following the requests for records and other project tasks. Please complete the form to the best of your knowledge and return it to us in a timely manner.

- Please provide a site plan that accurately shows the property boundaries.
- Are there any critical report deadlines we should be aware of? NO
- Reason for performing this Phase I ESA: FUTURE PURCHASE.
- Planned property use: DEVELOPMENT OF AG EXISTING.
- Will the property be serviced by municipal water?: ? BELIEVE TO HAVE EXISTING TAP
- Site owner's contact information (A formal environmental questionnaire will be forwarded to the property owner):

Representatives Name: TOM BECKIUS

Company: INA GROUP, LLC

Address: 6333 APPLE WAY LINCOLN, NE 68511

Phone / Fax: 402-435-0011

Email:

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the Phase I ESA report user must provide the following information (if available) to the environmental professional preparing the report.

- Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

NO

- Are you aware of any Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

- Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

- Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, is the lower purchase price because contamination is known or believed to be present at the property?

YES

- Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? Such information may include knowledge of past site uses, chemicals storage on the site, hazardous materials spills, or previous environmental cleanups at the site or in the surrounding area. If so, please explain.

NO

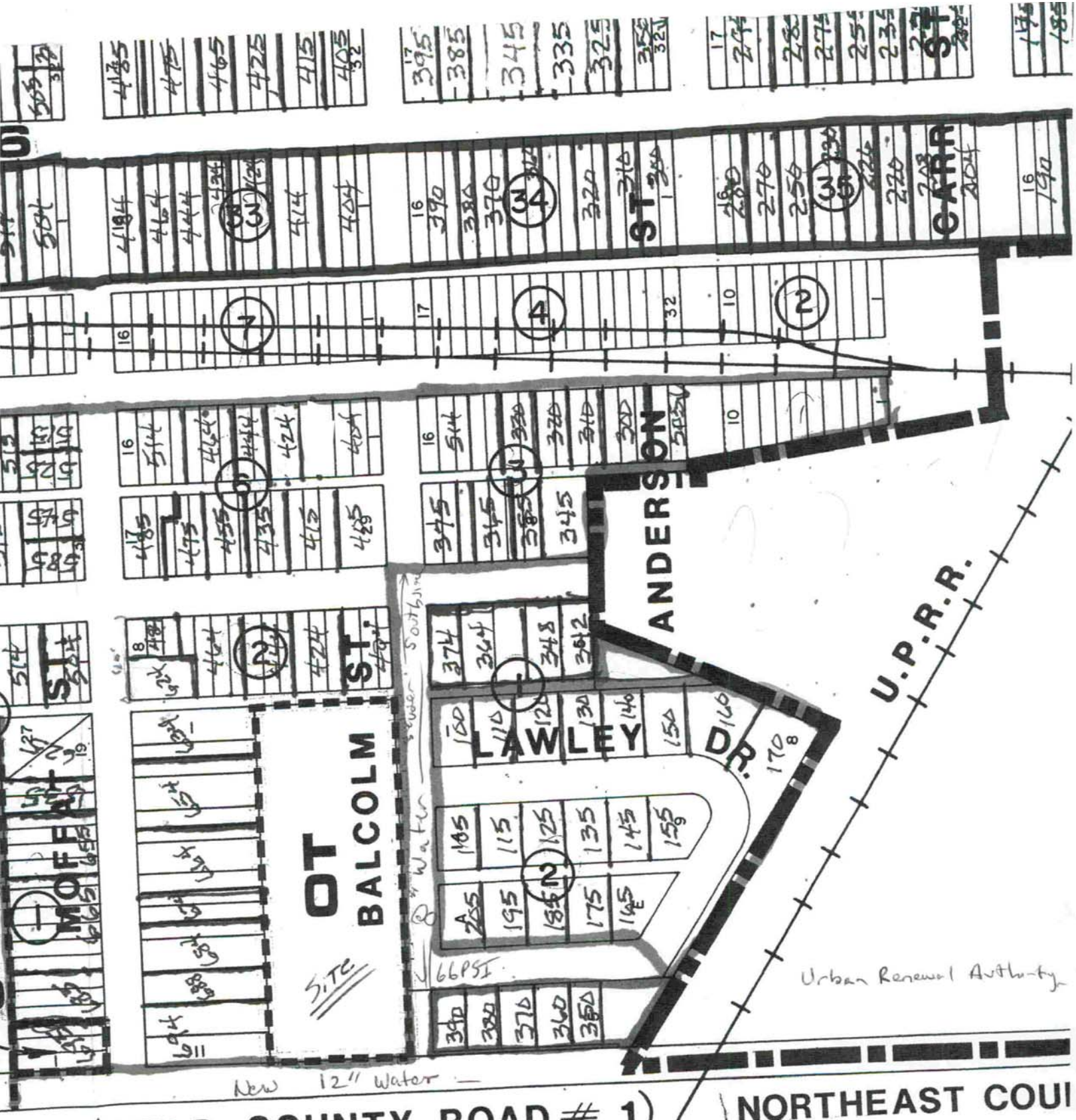
- Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property? [redacted] BARRELS ONSITE, ?

Name: [redacted]
Title: VP
Date: 5.5.12

If Additional Space is Needed, Please Attach Written Responses

Return Completed Questionnaire to Melissa Chalona | MChalona@CTLThompson.com

351 Linden Street #140 | Fort Collins, Colorado 80524 | Phone: 970-206-9455 | Fax: 970-206-9441



Taps / Impact Fees Parks / Trans / Public Works - W/S - Traffic. Wendy / Russell.

Unit 3 / Chapter 3 — (Zoning)

→ Unified Development Code

— Neighborhood mixed-use — Stormwater Water Quality / BE Green

Feature Type	Size/Qty	Year Built
Equipment Storage	12,300	1973

Listing Information

MLS Listing Number:	**M823612**	Current Listing Price:	**$595,400**
MLS Status:	**Expired**	Pending Date:	**08/10/2010**

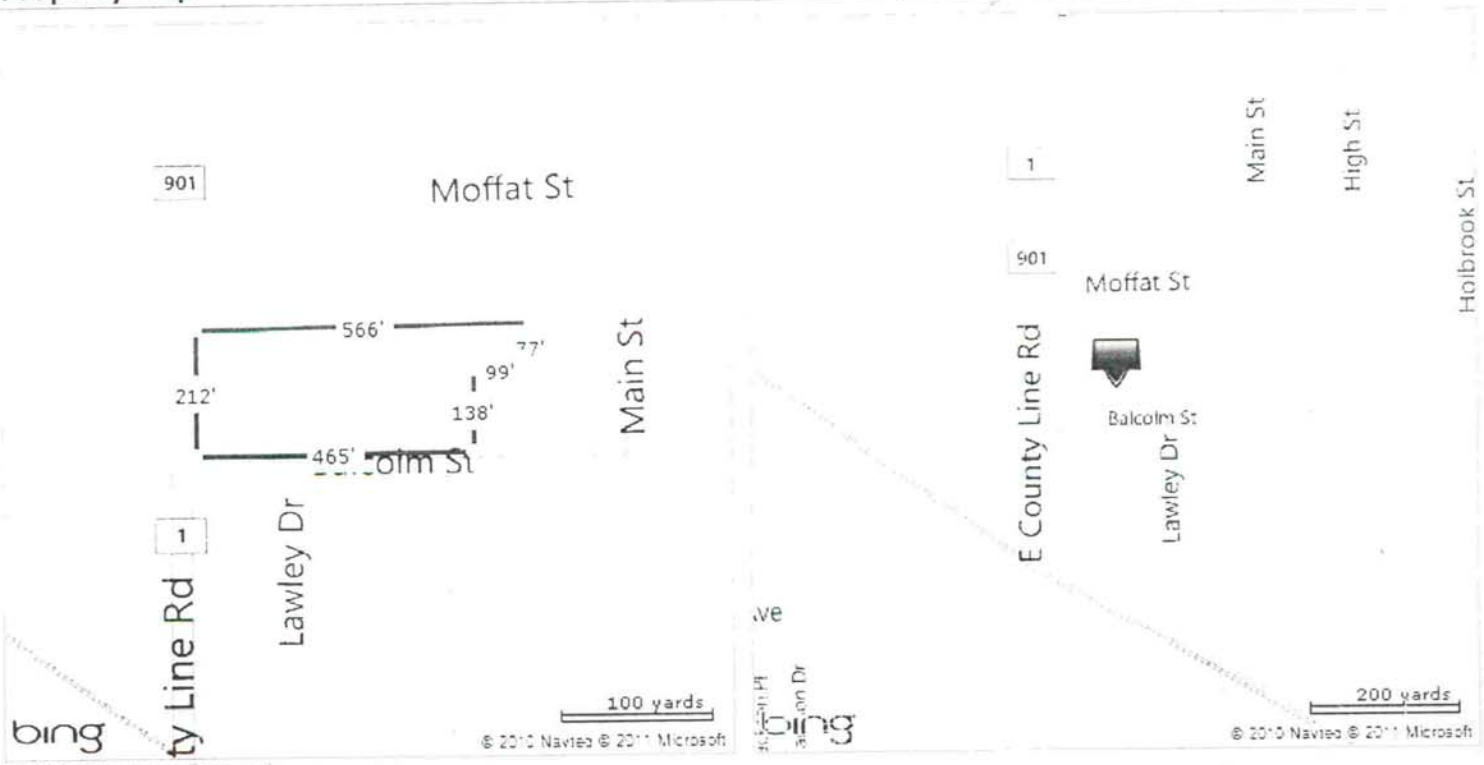
MLS Listing #	M753653
MLS Status	Expired

Market Sale & Sale History

Owner Name (Last, First):	**Zaruba Cheryl A**	Owner Name 2:	**Zaruba Donald H Heirs Of**

Recording Date	08/03/2001
Nominal	Y
Buyer Name	Zaruba Cheryl A
Seller Name	Zaruba Donald H Jr
Document Number	2871820
Document Type	Personal Representative's Deed

Property Map



*Lot Dimensions are Estimated

Building 1 of 3

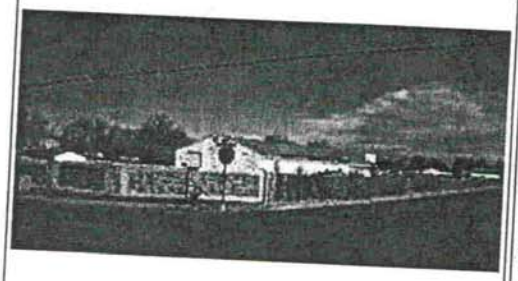
Owner Information

Owner Name (Last, First):	**Zaruba Cheryl A**	Tax Billing Zip+4:	**1316**
Owner Name 2:	**Zaruba Donald H Heirs Of**	Owner Occupied:	**No**
Tax Billing City & State:	**Longmont, CO**	Owner Last Name:	**Zaruba**
Tax Billing Zip:	**80504**		

Location Information

Subdivision:	**Erie Town**	Township Range Sect:	**1-68-18**

©IRES



IRES MLS # :676047 **PRICE:** $249,000

4060 NE County Line Rd, Erie 80516

VACANT LAND/LOTS / COM **ACTIVE**

Locale: Erie **County:** Weld

Area/SubArea: 10/31 **Map Book:** O - 102 - M

Subdivision: Erie Town

Legal: ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK 4 HUNTS 1st ADD TO ERIE W TO W LN SEC

Nearest Town: **Miles To Nearest Town:**

Built: **SqFt Source:**

New Const: No

Builder:

Listing Comments: Previous PreCast Concrete company. 212 feet of frontage on County Road 1.

Driving Directions: From I-25 West on Highway 8, jog on Leon Wurl Pwky then North on County Line Road. Property is on the north side of Balcolm, just south of the school.

Property Features

Land Size: 1-5 Acres**Location Description:** Corner Lot, Outbuildings, Within City Limits**Fences:** Partially Fenced**Road Access:** County Road/County Maintained**Number of Living Unit Allowed:** See Remarks **Water/Sewer:** No Water/Sewer**Ownership:** Private Owner**Possession:** Delivery of Deed**Property Disclosures:** No Property Disclosure**Flood Plain:** Minimal Risk**Possible Usage:** Multi Family**Development Status:** Undeveloped**New Financing/Lending:** Cash, Conventional

Elementary: Erie
Middle/Jr.: Erie
High School: Erie
School District: St Vrain Dist Re 1j

Lot Size:108900 **Approx Acres:**2.5
Elec: **Water:**None
Gas: **Taxes:** $10,496/2010
PIN: **Zoning:**OTR
Waterfront: No **Water Meter Inst:** No
Well Permit #:

HOA: No

Water Tap Fee: **Sewer Tap Fee:**
Irrigation Water Rights: No
Has Irrig Ditches: No
Well Information:
Water Rights:
Lake/Reservoir/Stream:
Crops:
Improvements on Prop: Yes
Improvements:

Contact: Nelson Miner**Phone:** 303-682-0150**Cell:** **Email:** lorijminer@aol.com
Office: Prime RE Mgmt Services LLC**Phone:** 303-682-0150
LA: Nelson Miner**LO:** Prime RE Mgmt Services LLC

Prepared By: Nelson Miner - Mar 20, 2012 12:35:42 PM

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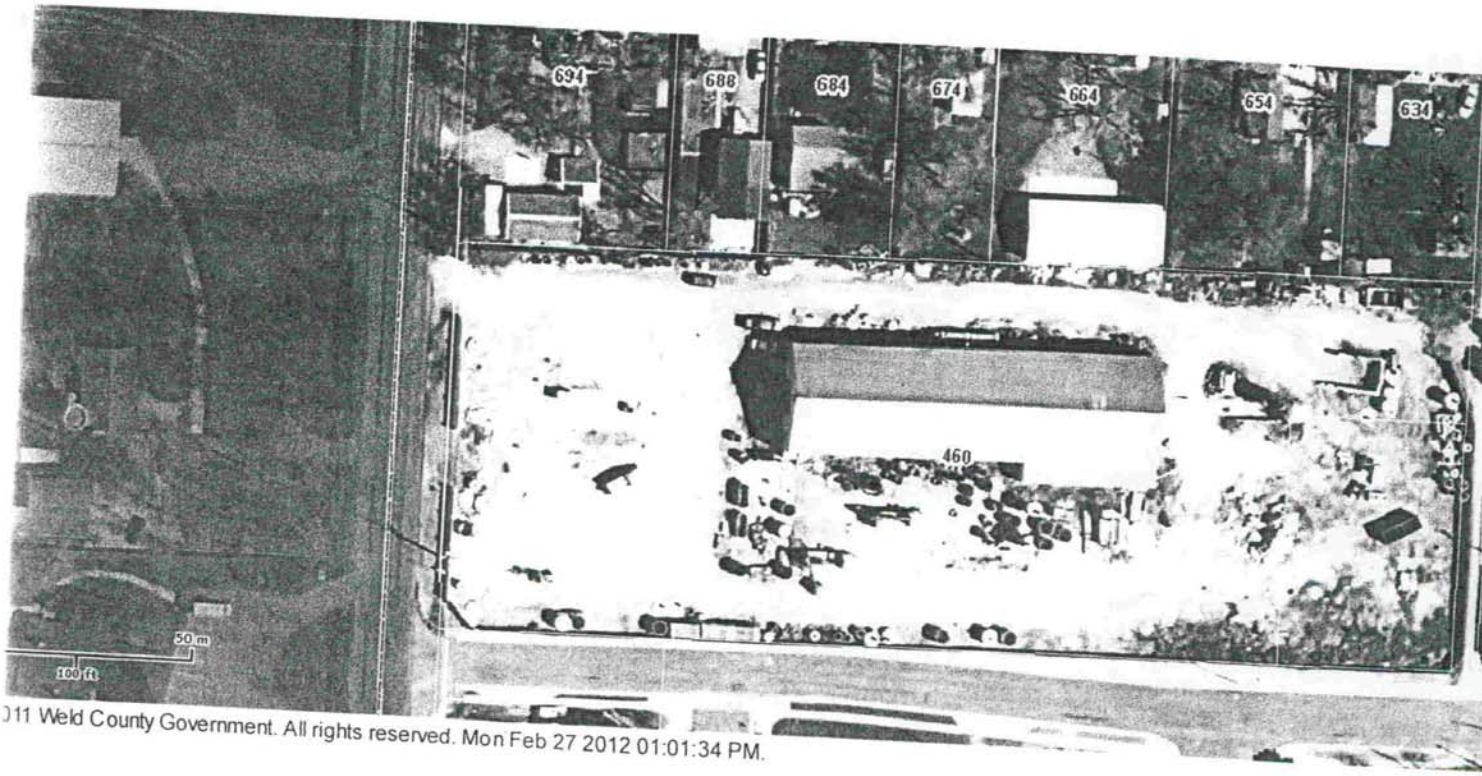


011 Weld County Government. All rights reserved. Mon Feb 27 2012 01:01:34 PM.

TNA GROUP, LLC /
CLARK FOSLER

Property Profile for Account #R5746486

February 27, 2012

Account Information

Account	Parcel	Space	Account Type	Tax Year	Tax Area	Buildings	Actual Value	Assessed Value
R5746486	146718300003		Commercial	2012	1333	3	340,290	98,690

Legal
ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK4 HUNTS 1ST ADD TO ERIE W TO W LN SEC S214.7' E526' N131.7' E96' N83' TO BEG (2.5A M/L)

Subdivision	Block	Lot	Land Economic Area
ERIE TOWN	4	1	ERIE COMM

Property Address	Property City	Zip	Section	Township	Range
4060 1 CR	ERIE	000000000	18	01	68

Owner Information

Owner(s)	Address Line 1	Address Line 2	City	ST	Zip
INA GROUP LLC	6333 APPLES WAY STE 115		LANCASTER	NE	68516

Document History Information

Reception	Rec Date	Type	Grantor	Grantee	Sale Date	Sale Price
02118725	10/23/1987	QCN			05/01/1987	0
2916487	01/14/2002	PRDN	ZARUBA DONALD G	ZARUBA CHERYL A (50% INT) & DONALD	01/10/2002	0
3812263	12/15/2011	TRD	WELD CO TREASURER	INA GROUP LLC	12/14/2011	0

Building Information

Building 1

ID	Type	NBHD	Occupancy	Built As	Bedrooms	Baths	Rooms
1	Commercial	3901	Storage Warehouse	Equipment Storage	0	0	0

ID	Square Ft	Condo SF	Total Basement SF	Finished Bsmt SF	Garage SF	Carport SF	Balcony SF	Porch SF
1	12,300	0	0	0	0	0	0	0

ID	Year Built	% Complete	Stories	Perimeter	Units	Unit Type
1	1973	100	1	530	0	

ID	Length	Width	Make

1	0	0	

ID	Exterior	Roof Cover	Interior	HVAC
1				None

ID	Detail Type	Detail Description	Units
1	Add On	Com Office Finish Low	240

Building 2

ID	Type	NBHD	Occupancy	Built As	Bedrooms	Baths	Rooms
2	Commercial	3901	Light Commercial Utility	Equipment Storage	0	0	0

ID	Square Ft	Condo SF	Total Basement SF	Finished Bsmt SF	Garage SF	Carport SF	Balcony SF	Porch SF
2	864	0	0	0	0	0	0	0

ID	Year Built	% Complete	Stories	Perimeter	Units	Unit Type
2	1973	100	1	84	0	

ID	Length	Width	Make
2	0	0	

ID	Exterior	Roof Cover	Interior	HVAC
2				None

ID	Detail Type	Detail Description	Units

Building 3

ID	Type	NBHD	Occupancy	Built As	Bedrooms	Baths	Rooms
3	Commercial	3901	Miscellaneous OB	Other OB	0	0	0

ID	Square Ft	Condo SF	Total Basement SF	Finished Bsmt SF	Garage SF	Carport SF	Balcony SF	Porch SF
3	1	0	0	0	0	0	0	0

ID	Year Built	% Complete	Stories	Perimeter	Units	Unit Type
3	0	100	0	0	0	

ID	Length	Width	Make
3	0	0	

ID	Exterior	Roof Cover	Interior	HVAC
3				None

ID	Detail Type	Detail Description	Units
3	Add On	Concrete Slab Average	144

Valuation Information

Type	Code	Description	Actual Value	Assessed Value	Acres	Land SqFt
Land	2135	WAREHOUSE/STORAGE-LAND	119,790	34,740	2.500	108,900
Improvement	2230	SPECIAL PURPOSE-IMPROVEMENTS	5,500	1,600	0.000	0
Improvement	2235	WAREHOUSE/STORAGE-IMPS	215,000	62,350	0.000	0
			340,290	98,690	2.500	108,900

Tax Information

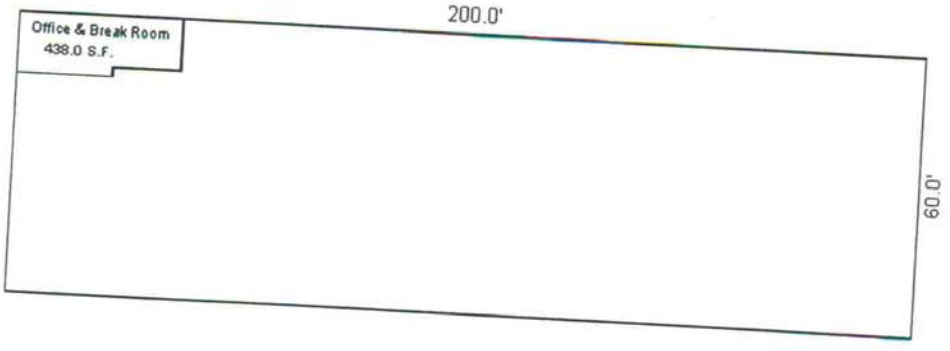
Tax Area	District ID	District Name	Current Mill Levy	Tax Year
1333	0100	WELD COUNTY	16.804	2012
1333	0213	SCHOOL DIST RE1J	47.614	2012
1333	0301	NORTHERN COLORADO WATER (NCW)	1.000	2012
1333	0404	ERIE TOWN	17.146	2012
1333	0512	MOUNTAIN VIEW FIRE	11.747	2012
1333	1050	HIGH PLAINS LIBRARY	3.271	2012
			97.582	

Property Photo

No Photo Available

Property Sketch

Total G.G.A.
12000.0 S.F.
Wood Pole Building with metal siding
Dirt Floor



Sketch by Apex IV™

Tax Account

Summary

Account Id	R5746486
Parcel Number	146718300003
Owners	INA GROUP LLC
Address	6333 APPLES WAY STE 115 LANCASTER, NE 68516
Situs Address	4060 I CR ERIE 000000000
Legal	ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK4 HUNTS 1ST ADD TO ERIE W TO W LN SEC S214.7' E526' N131.7' E96' N83' TO BEG (2.5A M/L)

Inquiry

As Of 02/27/2012

Payment Type ○ First
● Full

Taxes Due $9,630.37

Total Due $9,630.37

Update

Value

Area Id		Mill Levy
1333 - 1333		97.5820000
	Actual	**Assessed**
WAREHOUSE/STORAGE-LAND - 2135	119,790	34,740
SPEC.PURPOSE-IMPROVEMENTS - 2230	5,500	1,600
WAREHOUSE/STORAGE-IMPS. - 2235	215,000	62,350
Total Value	340,290	98,690
Taxes		$9,630.37

The amounts of taxes due on this page are based on **last year's** property value assesments.

APPENDIX I

COSTIS DOCUMENTATION

COLORADO DEPARTMENT OF LABOR AND EMPLOYMENT

OIL AND PUBLIC SAFETY - RECORDS CENTER

FACILITY NAME	ERIE PRECAST CONCRETE PRODUCTS
FACILITY ADDRESS	4060 WELD CR 1
FACILITY CITY	ERIE
BOX #	760

FACILITY ID # 3520

EVENT ID # 0

RAP # 0

FILE # FAC

SARDONYX CODE

APPENDIX I to §280.3

Notification for Underground Storage Tanks

FORM APPROVED
OMB NO. 2050-0068
APPROVAL EXPIRES 6-30-88

I.D. Number — STATE USE ONLY: 00 5914

Date Received: 5-15-86

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner Notice

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: ☐

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Erie Pre-Cast Concrete Products

Street Address: 4060 W.C.R. 1

County: Weld

City: Erie — State: CO — ZIP Code: 80516

Area Code: 303 — Phone Number: 665-9380

Type of Owner (Mark all that apply ☒)

- ☐ Current
- ☐ Former
- ☐ State or Local Gov't
- ☐ Federal Gov't (GSA facility I.D. no. _____)
- ☒ Private or Corporate
- ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☒)

Facility Name or Company Site Identifier, as applicable:

Street Address or State Road, as applicable:

County:

City (nearest): — State: — ZIP Code:

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐): Donald Zamba Jr.

Job Title: Manager

Area Code: 303 — Phone Number: 665-9380

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed
	Donald Zamba Jr.	5/6/86

CONTINUE ON REVERSE SIDE

59.14.

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS *(Complete for each tank at this location)*

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank *(Mark all that apply ☒)*					
Currently in Use	1				
Temporarily Out of Use					
Permanently Out of Use					
Brought into Use after 5/8/86					
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)					
4. Material of Construction *(Mark one ☒)*					
Steel	1				
Concrete					
Fiberglass Reinforced Plastic					
Unknown					
Other, Please Specify					
5. Internal Protection *(Mark all that apply ☒)*					
Cathodic Protection					
Interior Lining (e.g., epoxy resins)					
None					
Unknown	1				
Other, Please Specify					
6. External Protection *(Mark all that apply ☒)*					
Cathodic Protection					
Painted (e.g., asphaltic)	1				
Fiberglass Reinforced Plastic Coated					
None					
Unknown					
Other, Please Specify					
7. Piping *(Mark all that apply ☒)*					
Bare Steel					
Galvanized Steel	1				
Fiberglass Reinforced Plastic					
Cathodically Protected					
Unknown					
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume *(Mark all that apply ☒)*					
a. Empty					
b. Petroleum					
Diesel					
Kerosene					
Gasoline (including alcohol blends)	1				
Used Oil					
Other, Please Specify					
c. Hazardous Substance					
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances					
d. Unknown					
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)					
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)					

USWLDERI 0021

ERIE PRECAST CONCRETE PRODUCTS
4060 WELD COUNTY RD 1 ERIE
STORAGE LOC: SU 18

...nks

FORM APPROVED
OMB NO 2050-0049
APPROVAL EXPIRES 6-30-88

STATE USE ONLY

I.D. Number 0004920

Date Received 6/11/86

...ORMATION

ground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means

(a) in the case of an underground storage in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

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2. tanks used for storing heating oil for consumptive use on the premises where stores;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

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Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached ☐

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Erie Precast Concrete Products

Street Address
4060 Weld County Road 1

County
Weld

City: Erie | State: Colorado | ZIP Code: 80516

Area Code: 303 | Phone Number: 665-9380

Type of Owner (Mark all that apply ☒)
☐ Current ☐ Former ☐ State or Local Gov't ☐ Federal Gov't (GSA facility I.D. no. ____) ☒ Private or Corporate ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable
4060 Weld County Road 1

Street Address or State Road, as applicable
Weld

County
Erie | Colorado | 80516
City (nearest) | State | ZIP Code

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust land ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐)
Donald Zaruba, Jr.

Job Title
Mgr. owner

Area Code: 303 | Phone Number: 665-9380

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative
Cheryl A. Zaruba - Bookkeeper

Signature
Cheryl A. Zaruba

Date Signed
6-9-86

CONTINUE ON REVERSE SIDE

EPA Form 7530-1 (11-85)

4920

Owner Name (from Section I) FBI-Pre Cast Concrete Products Location (from Section II) 4060 Weld County Rd 1 Erie Co Page No. 1 of 1 Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒)					
Currently in Use	☑	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☐	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	8				
3. Estimated Total Capacity (Gallons)					
4. Material of Construction (Mark one ☒)					
Steel	☑	☐	☐	☐	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☑	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☑	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒)					
Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☑	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☑	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify					
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)					
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

COLORADO DEPARTMENT OF LABOR AND EMPLOYMENT

OIL AND PUBLIC SAFETY - RECORDS CENTER

FACILITY NAME	ERIE PRECAST CONCRETE PRODUCTS
FACILITY ADDRESS	4060 WELD CR 1
FACILITY CITY	ERIE
BOX #	112REG

FACILITY ID # 3520

EVENT ID #

RAP #

FILE #

SARDONYX CODE WLDERI 002

Facility Information Update

Facility ID: 3520

Fac. Name: ERIE PRECAST CONCRETE

Fac. Address: 4068 CT RD

City / Zip: ERIE 80516

Phone #: _____

Owner Name: _____

Owner Address: _____

City / Zip: _____

Contact Name: _____

Contact Add.: _____

City / Zip: _____

Contact Type: ☐ Owner ☐ Operator ☐ Manager ☐ Loc. Contact

REGULATED ASTS

REMOVED

Facility Type (check only one best suited):

☐ Air Taxi (Airline) ☑ Commercial (Non-retail Fac.) ☐ Farm ☐ Federal (Military)
☐ Federal (Non-Military) ☐ Gas Station (Retail Fac.) ☐ Local Government ☐ Petro. Distributor
☐ Railroad ☐ Residential ☐ State Government

Tank Information: **NEW TANK _____** **OR** **EXISTING TANK_____**

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Install Date					
Tank Type (all that apply)	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment
Status (check only one)	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed
Capacity					
Substance (check only one)	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other
Tank Material (check only one)	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.
Tank Options (check only one)	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner
Piping Type (check only one)	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed
Pipe Material (check only one)	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic
Pipe Options (check only one)	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment
Spill/Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill

Submitted by: _____ **Date:** 3/26/02

APPENDIX J

RESUMES

Resume

MELISSA L. CHALONA, P.E., LEED AP
Environmental Project Manager

EDUCATION

B.S. Environmental Engineering
University of Florida 1995

PROFESSIONAL REGISTRATION

Registered Professional Engineer
Colorado No. 34745
Texas No. 106563
LEED Accredited Professional

TRAINING

Applied Low Impact Development Best Management Practices
USGBC Existing Building LEED Technical Review
OSHA 40-Hour HAZWOPER certified
OSHA HAZWOPER Supervisor
CDOT Certified Erosion Control Supervisor

PROFESSIONAL SOCIETIES

US Green Building Council
American Consulting Engineers Council of Colorado

PROFESSIONAL SUMMARY

Ms. Chalona joined CTL|Thompson in 2008 with 13 years of experience in civil and environmental engineering with 10 of those years in the Front Range area. As a Project Manager in our Fort Collins office, her responsibilities include project management and consultation on all environmental related issues.

Ms. Chalona has developed Storm Water Management Plans (SWMP), Spill Prevention Control and Countermeasure (SPCC) Plans, Oil Spill Contingency Plans and Erosion and Sedimentation Control Plans. She is involved in Phase I and Phase II Environmental Site Assessments, environmental compliance audits, and groundwater remediation. She has ten years project engineering experience in stormwater site design, floodplain modeling, and erosion and sedimentation control.

As a project manager, Ms. Chalona's responsibilities include project coordination with clients, contractors, other engineers, and staff engineers.

PROJECT RELATED QUALIFICATIONS

University of Colorado, Boulder, Colorado
Conducted regulated building material surveys for the Smiley Court and Kittredge Commons building deconstruction projects. Coordinated recycling and reuse of building materials.

University of Wyoming, Laramie, Wyoming
Performed regulated building material surveys for Downey Hall and the Ivinson Building.

ViaWest, Inc. Colorado, Utah, Oregon, Texas, Nevada
Project manager for field assessment, design, and regulatory compliance for SPCC plans for multiple facilities satisfying federal and state requirements for approximately 169,000 gallons of petroleum storage.

Globeville Dewatering Groundwater Remediation, Denver, Colorado
Onsite remediation of contaminated groundwater during construction dewatering including permit compliance, water testing, and remediation process.

City of Loveland – Brose Site Phase I and II, Loveland, Colorado
Performed property acquisition Phase I and II Environmental Site Assessment for previously mined land.

Larimer County, Colorado
Developed SWMP for 19 Larimer County Facilities totaling over 120 acres. Stormwater Manager Training for County Staff.

Auraria Higher Education Center, Denver, Colorado
Conducted field assessment, design and regulatory compliance for SPCC and Oil Spill Contingency Plan for campus in downtown Denver adjacent to Platte River and Cherry Creek.

Resume

MATTHEW L. WARDLOW, P.E.
Environmental Department Manager

EDUCATION

B.S. Engineering and Policy
Washington University,
St. Louis, MO, 1993

TRAINING & CERTIFICATIONS

40 Hour OSHA Training
Confined Space Training
Mold Remediation Technician Training
Principals of Forced Air Remediation
Asbestos Inspector
Air Monitoring Specialist

PROFESSIONAL REGISTRATION

Registered Professional Engineer,
Colorado No. 36223

PROFESSIONAL SOCIETIES

American Society of
Foundation Engineers;
Colorado Hazardous Waste
Management Society;
Building Owners and Managers
Association, Instructor

PROFESSIONAL SUMMARY

Mr. Wardlow joined CTL|Thompson, Inc. in 2004, having ten years of previous experience providing environmental consulting throughout Colorado. He currently serves as the Manager for CTL|Thompson's Denver-based Environmental Consulting Division, which includes staff supervision, project management, and client relations.

Mr. Wardlow has a variety of technical expertise in Phase I and II Environmental Site Assessments, underground storage tank removals, site characterizations, CDPHE Voluntary Cleanup applications, mold and moisture evaluations, and asbestos consulting services. Mr. Wardlow reviews nearly every Phase I ESA the Denver Branch publishes, making sure that the latest standards are followed. He has developed a reputation as a consistent and reliable consultant for his clients, which include builders, lenders, attorneys, and government representatives. He encompasses a variety of project experience including transportation facilities, municipal buildings, residential developments, historical sites, medical facilities, and wastewater treatment plants.

PROJECT EXPERIENCE

3960 High Street, Denver, Colorado
Project Manager for Phase I and II ESA and Tank removal. Phase II ESA was performed out of concern of prolonged industrial use on site and surrounding area. CTL discovered Carbon Tetrachloride and Chloroform above ground water standards, but was able to demonstrate that the more stringent standard of Carbon Tet was inapplicable, and that Chloroform is ubiquitous in lab results. Client successfully sold this industrial property.

Smith Property, Near Rocky Flats Industrial Park, Arvada, Colorado
This 500-acre parcel is planned for development but is potentially impeded by ground water and surface water flows from the RFIP to the north, as shown by our Phase I and II ESA. CTL was able to perform an in-depth hydrological study and demonstrate that the planned development area is disconnected from the ground water impacts. CDPHE issued a No Action Determination, agreeing with our assertion.

High Profile Industrial Campus, Louisville, Colorado
Prepared the Phase I ESA prior to purchase of this industrial campus. This complicated Phase I ESA revealed a lesser degree of environmental documentation for the older buildings. Recommended a Phase II ESA near the older buildings and drum storage. Solvents were found in the ground water. CTL saved an undisclosed amount of money for our client by discovering this prior to purchase.

Stapleton Redevelopment, Denver, Colorado
Performed Phase I ESAs on various properties around the Stapleton Redevelopment Site. The former Stapleton Airport has undergone a multitude of cleanups and studies which have included fuel farms, the concourses, the ports-of-call plumes, rental car operations, de-icing agents, asbestos in buildings and in the soils, and offsite plumes of TCE.

Other Phase I ESAs:
Ratliff and Richers Properties, Adams County, Trust for Public Land
San Tropez Apartments, Denver, Colorado, The City of Glendale
South Bryant Street, Englewood, Colorado, Liberty Savings Bank
20 Mining Properties, for Boulder County Parks and Open Space, Colorado

Mold and Moisture Evaluations, Various Builders, Colorado
Projects have included odor complaints, moisture intrusion evaluations, mold evaluations, air sampling, and crawl space observation.

Industrial Park, North Denver, Colorado
Project Manager for surface sampling of industrial site, where the company used the site for storage and cutting of old telephone wiring with a lead component. This project involved lead dust wipes sampling and recommendations on remediation.

Asbestos Surveys, Denver Metro Area, Colorado
Projects involved identifying and sampling all suspect materials.

Troxel Residential Property, Carbondale, Colorado
As Project Manager, Mr. Wardlow was able to coordinate a contractor and obtain an UST Closure permit on an expedited basis. Extensive soil removal was needed at this UST installation. Diesel-contaminated soils were segregated and characterized properly. The client was able to obtain tank closure on a rapid turnaround basis.

Expert Witness Background

Brandaw v. Ryland Homes et al.
Douglas County District Court, 04CV767
Deposition: November 1, 2005
Case involves potential moisture intrusion through exterior of home, and potential mold concerns

Kleckner v. Keller Homes, Inc.
Claim No. 961-010091
Case involved alleged moisture intrusion into basement and mold concerns
Testified October 11, 2006

The presence of asbestos and lead-based paint can be an environmental risk with the potential for extensive costs during renovation, remodeling, or demolition of buildings. Lead-based paint is of concern in pre-1978 buildings. Construction and renovation work for buildings containing asbestos and lead-based paint may be subject to the Federal and State regulations. The cost of asbestos and lead-based paint management or abatement should be considered prior to property transfer. Consequently, CTL recommends performing a lead-based paint and asbestos survey prior to purchase of the buildings.

12.0 QUALIFICATIONS

This Phase I ESA report was prepared and reviewed by licensed Professional Engineers (PE) registered in the State of Colorado. The resumes of the individuals conducting this Phase I ESA are included in Appendix J.

Ms. Chalona declares that, to the best of her professional knowledge and belief, she meets the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject Site. We have developed and performed the appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

We believe that this investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

CTL|THOMPSON, INC.

Reviewed by:

Melissa L. Chalona, PE, LEED AP
Environmental Department Manager

Matthew L. Wardlow, PE
Quality Assurance Reviewer

Addressee (3 copies)

April 12, 2013

INA Group, LLC
6333 Apples' Way, Suite 115
Lincoln, NE 68516

Attention: Tom Beckius

Subject: Phase II Environmental Site Assessment
4060 County Line Road, Erie, Colorado
CTL | T Project No. FC05859.001

INTRODUCTION

This report presents the analytical results for soil and groundwater samples collected during the Phase II Environmental Site Assessment (ESA) of 4060 County Line Road in Erie, Colorado, hereafter known as "the site". The site is developed with an abandoned former pre-cast concrete manufacturing plant.

BACKGROUND

CTL|Thompson, Inc. (CTL) performed a Phase I ESA of the site in 2012 (Project Number FC05859.000, Phase I ESA report dated June 7, 2012). The Phase I ESA was performed for Skyline Builders, who was a prospective purchaser of the site. CTL understands that INA Group, LLC is the current owner of the site and has received authorization from Skyline Builders to use the information in the Phase I ESA as the basis for this current Phase II ESA. The following recognized environmental conditions (RECs) were identified during the 2012 Phase I ESA:

1. Hazardous materials storage was observed at the site in the form of 55 gallon drums and smaller containers. The drums appeared to contain motor oil, hydraulic oil, deactivator and other unknown contents. The containers were stored directly on the soil without secondary containment, and many containers and drums appeared to be damaged and leaking. Extensive soil staining was observed in the vicinity of many of the containers. Due to the presence of visible staining and the potential for subsurface soil and groundwater contamination, hazardous materials storage was determined to be a REC.

2. Odors of petroleum products were observed inside the pre-cast building. Odors indicated the potential presence of petroleum products on the building structure and in the bare soil floor of the building. Due to the material threat of releases of petroleum products to the building and subsurface soils or groundwater, the petroleum odors were considered a REC.

3. The site contains a number of piles of soil, concrete and other improperly disposed wastes, and various hazardous materials containers. The origin of the soils is unknown, and staining was observed in the vicinity of the wastes, indicating potential releases of hazardous substances and/or petroleum products. These releases were considered a REC.

4. Based on records reviews, a gasoline underground storage tank (UST) of unknown size was registered to the site but is listed in state files as having been removed. However, the state files did not contain any documentation to confirm the removal or to confirm that the UST location was assessed for releases at the time of the reported removal. A relative of the prior owner told CTL that the UST had likely been located on the east end of the pre-cast building. Due to the risk of releases from USTs, this UST was considered a REC.

On June 19 2012, CTL provided Skyline Builders with a scope of work to perform a Phase II ESA at the site. At the request of INA Group, LLC, the same scope of work was re-proposed on February 19, 2013, to INA Group, LLC. The objective of the Phase II ESA was to assess subsurface soils and groundwater for evidence of releases associated with RECs identified during the Phase I ESA.

This Phase II ESA is intended to assess the site for gross evidence of contamination and is not intended to fully delineate the horizontal and vertical extent of contamination, if identified. Borings were installed in locations that would indicate the presence of contamination. If contamination was identified, the limited number of borings and samples would not identify the extent or the source of contamination nor should the concentrations imply that these are the highest concentrations on the Site. For example, any one of these borings could be moved ten or more feet and higher concentrations of contamination could be identified. The presence of contamination during the Phase II is an indicator of contamination and additional investigation would be required to determine the source, extent, and highest concentration of contamination.

GROUND PENETRATING RADAR (GPR) SURVEY

CTL subcontracted Ground Penetrating Radar Systems to conduct a GPR survey of locations believed to have been likely locations of a former gasoline UST. Based on an interview with Ms. Zaruba, a relative of the former pre-cast facility owner, the UST was likely east of the pre-cast building.

The GPR survey was performed on March 20, 2013, by rolling a tricycle cart-mounted GPR unit in a grid pattern across each area of interest. For the site, the areas surveyed are shown on Figure 1 and included:

- A large, apparent unpaved driveway or parking area extending eastward from the east end of the building. Areas covered with vegetation or other obstacles were not surveyed. This area was believed to be the most likely former UST location based on Ms. Zaruba's recollection. The GPR survey did not identify obvious buried objects or changes in soil density (possible indication of prior excavation).

- Two approximate rectangular areas of bare soil along the east entrance road. Both of these areas are situated near a concrete trough that reportedly held aboveground diesel tanks. The GPR survey did not identify obvious buried objects or changes in soil density.

- Northeast side of pre-cast building. A possible vent-pipe was observed near the northeast corner of the building, and a concrete pad is present along this portion of the building exterior. The GPR survey indicated an apparent change in soil density near the northeast corner, approximately 5 feet north of the building and a possible vent pipe. Approximately 20 feet further to the west, the GPR indicated a possible buried object. Both findings were considered significant. Between the location of the these two significant GPR findings, the GPR could not access the ground surface due to the presence of a large volume of waste material and drums. The two significant GPR findings were marked in the field for potential further investigation.

TEST PITS

Based on the results of the GPR survey, INA Group LLC authorized CTL to advance test pits in the locations of the two significant GPR findings. CTL subcontracted A&D Environmental and on March 25, 2013, observed the excavation of one test pit at each of the two locations of significant GPR findings. Each test pit was excavated to final dimensions of approximately 5-feet length by 5-feet width and 5-feet depth. A concrete pad was observed to run along the north side of the building in the area of the excavations. The concrete pad appeared to be partially broken near the northeast corner of the building.

Soils in each test pit were generally brown sandy clays and did not exhibit staining or odors. Obvious buried objects were not observed in the test pit where the GPR survey had indicated possible buried objects. The test pit corresponding to the GPR finding of possible change in soil density contained several pieces of re-bar and concrete near the bottom of the excavation, and an apparent electrical line that appeared to have been cut, also located near the bottom of the excavation. No other evidence of a former UST was observed.

Based on the GPR survey and test pits, it appears that the northeast corner of the building could have been a former UST location, although there was not sufficient evidence to confirm this.

DRILLING AND SAMPLING

On March 26, 2013, Mr. Dana Harris of CTL mobilized to the site with subcontractor Drilling Engineers, Inc. A track-mounted direct push drill rig was used to advance seven borings (GP-1 through GP-7) as shown in our proposal, with two exceptions:

- Boring location 4 was moved to the northeast corner of the building, where the UST may have been located; and

- Boring location 5 was moved to a central location (between proposed borings 4 and 5) east of the pre-cast building. Based on the findings of the GPR survey and test pits, it did not appear that more than one boring was necessary for the area immediately east of the pre-cast building.

One hand-excavated surficial soil sample (S-8) was collected using a disposable plastic trowel from the trench inside the pre-cast building. Boring and sample locations are shown on Figure 2.

During advancement of each boring, soil samples were collected continuously in 5-foot teflon cores down to a maximum depth of 25 feet below grade.

Soils from core samples were observed in the field using disposable vinyl examination gloves changed after every sample. After the soils were visually inspected, the soil sample from each core was divided. A portion of the sample was transferred into a plastic zip-loc bag and sealed; the other portion of the sample was promptly placed into a uniquely identified glass jar and packed tightly to minimize voids. Sample jars were then placed into a cooler chilled with ice for in-field storage and transit to the laboratory. The samples in the plastic bags were warmed and allowed to sit undisturbed to allow possible volatile organic compounds (VOCs) in the soils to vaporize into the headspace of the bags. A photoionization detector (PID) was used to determine the field concentration of VOCs of the headspace in the zip-loc bags.

Following completion of soil sampling, 1-inch PVC casings with slotted screen were inserted into the boreholes as temporary wells to facilitate groundwater sampling. Groundwater samples were collected using a peristaltic pump. Upon completion of sampling, the temporary wells were removed and each borehole was backfilled with cuttings and hydrated bentonite pellets.

Samples collected for laboratory analysis were delivered under chain of custody protocol to Technology Laboratory, Inc. in Fort Collins, Colorado, an independent analytical laboratory.

FIELD OBSERVATIONS

Boring logs are presented in Appendix A. Soils generally consisted of sandy clays and clayey sands underlain by weathered claystone/sandstone bedrock (generally observed as sand, gravel, pebbles, and cobbles) at depths of 14 to 17 feet below grade. Saturated soils were encountered within the coarse weathered bedrock materials at depths of 20 to 23 feet below grade. Several borings were advanced near locations where waste dumping, drums, or extensive staining was observed during the Phase I ESA. Surface features were difficult to observe during drilling due to the presence of approximately one foot of recent snow.

Obvious field evidence of releases was not observed, except at two boring locations:

- GP-2, inside the pre-cast building – slight staining and strong to moderate oil-like odors were observed in soils to a depth of approximately 7 feet below grade. Apparent saturated soils were observed at depths of approximately 20 to 23 feet

below grade, although groundwater was not encountered after drilling and installing a temporary monitoring well. A sample was collected for laboratory analysis from a depth of approximately 21 to 22 feet below grade, representing the apparent top of the saturated zone. PID readings from soils screened from this boring were non-detect (not unusual for heavy oil products).

- GP-7, north portion of the site exterior – this boring was advanced approximately 2 feet from a leaking 55-gallon drum of apparent form oil. Heavy staining and oil-like odor was evident in top-soil and vegetative matter, but graded out by a depth of approximately 2-feet below grade. PID readings from soils screened from this boring were non-detect (not unusual for heavy oil products).

The trench inside the pre-cast building was partially filled with dumped wastes, but visible soils inside the trench generally appeared similar to those of the dirt floor elsewhere in the building, with light staining and a petroleum odor.

LABORATORY ANALYTICAL RESULTS

Soils

The soil samples were analyzed for total volatile petroleum hydrocarbons (TVPH) and total extractable petroleum hydrocarbons (TEPH) by EPA Method 8015; Oil & Grease by EPA Method 9071; and volatile organic compounds (VOCs) by EPA Method 8260. Laboratory analytical results are included in Appendix B, and soil results are summarized on Table 1 below.

The surficial soil sample collected from the trench inside the building contained TVPH, TEPH, and Oil and Grease at concentrations less than the Colorado limit of 500 milligrams per kilogram (mg/kg) for USTs, which is not directly applicable to releases from the pre-cast operation but is the most relevant regulatory standard. VOCs were not detected above laboratory detection levels.

Table 1
Soil Analytical Results

Sample	Depth (feet below grade)	Results (milligrams per kilogram [mg/kg])			
		TVPH	TEPH	Oil & Grease	VOCs
GP-1	21-22	< 0.5	< 10.0	<50.0	None detected
GP-2	21-22	< 0.5	< 10.0	<50.0	None detected
GP-3	21-22	< 0.5	< 10.0	<50.0	None detected
GP-4	22-23	< 0.5	< 10.0	<50.0	None detected

Table 1 Soil Analytical Results					
Sample	Depth (feet below grade)	Results (milligrams per kilogram [mg/kg])			
		TVPH	TEPH	Oil & Grease	VOCs
GP-5	22-23	< 0.5	< 10.0	<50.0	None detected
GP-6	20-22	< 0.5	< 10.0	<50.0	None detected
GP-7	20-21	< 0.5	< 10.0	<50.0	None detected
S-8	1-2	0.95	65.5	316	None detected
Colorado OPS Limit[1]	-	500	500	500	-

1. Colorado Department of Labor and Employment, Division of Oil and Public Safety, Tier I Risk Based Screening Levels, 2005.

Groundwater

Groundwater was not encountered at GP-2. The groundwater samples from the remaining six borings were analyzed for VOCs by EPA Method 8260. VOCs were not detected above laboratory detection levels.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this investigation, we conclude the following:

- Gasoline UST – the GPR survey and test pit investigation were not able to locate a current UST where the prior owner indicated it was likely to have been. A possible vent pipe on the northeast corner of the building and the presence of broken concrete, re-bar, and an electric line in the test pit near the northeast corner suggest that a UST may have been removed from this location, although there is not sufficient evidence to confirm this. Based on field and laboratory evaluation of soil and groundwater samples from this location, there is no evidence of a gasoline release. Based on these results and the information previously reviewed during the Phase I ESA which indicated the UST was considered "closed" by the state, it does not appear further investigation of the UST would be warranted a this time.

- Pre-cast building – surficial soil sample S-8 collected from the trench inside the pre-cast building contained petroleum hydrocarbons at concentrations less than the Colorado UST standard, which is not directly applicable but is the most relevant regulatory standard for comparison. Field screening of soils from boring GP-2 indicated that an oil-like contamination may be present in soils to a depth of

7 feet below grade, if not deeper. One soil sample from a depth of approximately 21 to 22 feet below grade at boring GP-2 was submitted for laboratory analysis and did not contain petroleum hydrocarbons or VOCs above laboratory detection limits. Although saturated soils were observed during drilling GP-2, groundwater was not encountered approximately 5 hours after installation of a temporary well, and a groundwater sample was not collected. Based on field observations and laboratory analytical results for the two sample locations inside the building (S-8 and GP-2), it does appear that the use of form-oil or other materials at the pre-cast operation have impacted surface and subsurface soils. Although a groundwater sample could not be collected inside the building, the groundwater analytical results from surrounding borings did not identify gross groundwater contamination across the site. The sampling conducted during this Phase II ESA was not intended to delineate the horizontal or vertical extent of contamination.

- Wastes/drums – based on the soil and groundwater laboratory results from borings advanced in the general location of wastes and drums, there is no evidence of gross contamination of subsurface soils or groundwater. Evidence of potential localized shallow soil contamination was observed in several locations.

Based on the results of this investigation, it may be warranted to conduct additional investigation inside the pre-cast building. If the facility has been regulated under one or more environmental regulatory programs, there may be reporting requirements for the releases identified. The presence of leaking drums and other wastes on the site is likely in violation of Colorado solid and hazardous waste regulations. Furthermore, the presence of leaking drums may be in conflict with the continuing obligations that must be followed in order to qualify for liability protections under 40 CFR 312. It may be warranted to consult legal counsel regarding the status of the site and the findings of this investigation.

LIMITATIONS

The subsurface investigation and chemical analysis were performed for specific parameters, as detailed in this letter. The accuracy and reliability of environmental studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. An independent laboratory performed laboratory analysis. We are not responsible for the accuracy of data presented by others. The services performed should not be interpreted as providing any guarantee that the materials are free and clear of all hazardous or toxic materials.

We believe that our services were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

Thank you for choosing us to assist you with this project. If you have any questions or would like further clarification regarding this letter, please call.

Very truly yours,

CTL | THOMPSON, INC.

Dana L. Harris
Environmental Department Manager, Fort Collins

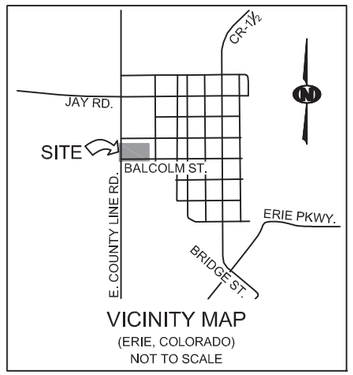
Matthew L. Wardlow, P.E.
Environmental Department Manager, Denver

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

GPR survey area

Test pit location



VICINITY MAP
(ERIE, COLORADO)
NOT TO SCALE

Figure 1
Phase II ESA
GPR and Test Pit Locations
4060 County Line Road Erie,
Colorado FC05859.001

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

Boring location

GPR survey area

Test pit location

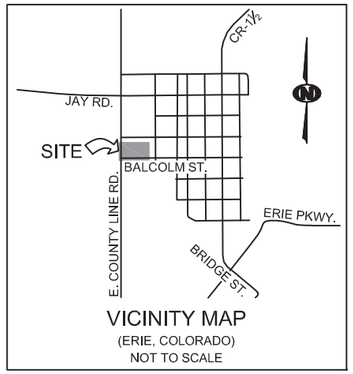


Figure 2
Phase II ESA
Boring Locations
4060 County Line Road
Erie, Colorado FC05859.001

Appendix A

Boring Logs

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FC05859.001 Project Name: 4060 County Line Road Hole#: GP-1

CTL Representative DM Hole Location: _____ Elevation: _____ Start: 0800 Finish: 0900

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe / Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Asphalt / road base	0
					90	0.0	Brown sandy clay, dry, no odor	
							Grades to mottled tan + gray clayey sand,	
5							dry, no odor	5
					90	0.0	Grades to tan clayey sand, dry, no odor	
10								10
							Grades to tan sandy clay, dry, no odor - ~8" layer	
					90	0.0	Grades to mottled tan + gray clayey sand, dry, no odor	
15							Grades to red-brown sand, gravel, pebbles, moist, no odor	15
							Grades to tan-brown sand + gravel, dry, no odor	
					60	0.0	Grades to med-fine sand + clay w/ gravel + cobbles, moist no odor	
20				▼			Graded to tan sandy clay, wet, no odor	20
		X						
		GP-1 @			95	0.0		
		21 - 20'					Moisture graded out, becomes more clayey, no odor	
25							End boring @ 25' / Insert 1" casing, 10' screen,	25
							(temp well)	
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FCO5859.001 Project Name: 4060 County Line Road Hole#: GP-2

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 0900 Finish: 1000

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	RE % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Grey to tan sand + gravel, cobbles, dry, 0.1 odor	0
					95	0.0	Grades to brown clayey sand, dry, 0.1 odor	
5							Grades to mottled brown + tan clayey sand, dry, 0.1 odor	5
					75	0.0	- odor graded out @ 5-7' bgs	
							Grades to brown sandy clay	
10								10
					75	0.0	SAA	
15							Grades to red-brown clay, sand, gravel, cobbles, marl, no odor (weathered bedrock)	15
					85	0.0		
20		X					Grades to tan sandy clay, wet, no odor	20
		GP-2 @ 21-22'			75	0.0	Grades to tan clay, plastic, dry, no odor	
25							End boring @ 25', insert 10' screen (temp well)	25
							@ 1425 - hole dry	
30							@ 1500 - hole dry - abandon	30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/28/13 Project #: FC05859.001 Project Name: 4060 County Line Road Hole#: GP-3

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1000 Finish: 1035

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary Modifier Moisture Consistency Color Notes	Depth
0							Concrete	0
					80	0.0	Brown sand and gravel, wet (snow melt), no odor Grades to brown, sandy, clay, moist, no odor	
5							Grades to mottled tan + gray sandy clay, dry, no odor	5
					80	0.0	Grades to tan clayey sand, dry, no odor	
10								10
					90	0.0	SAA w/ alternating clay/sand dominance	
15								15
					95	0.0	Grades to tan to red-brown sand, gravel, cobbles, dry, no odor (weathered bedrock)	
							SAA w/ 6" layer m-f sand	
20		X		▽				20
		GP-3 @ 21-22'		=	40	0.0	Grades to reddish brown sand + gravel, wet, no odor	
25							End boring @ 25', install 10' screen (temp well)	25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California Piezometer set: Y N Depth to Bedrock _____

Bulk Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FC0559.001 Project Name: 4060 CLR Hole#: GP-4

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1040 Finish: 1115

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	% Fines	PID / NSC Symbol	DESCRIPTIONS / NOTES (Primary, Modifier, Moisture, Consistency, Color, Notes)	Depth
0							Gray, sand + gravel, ~~&~~ concrete, wet (snow melt), no odor	0
					60	0.0	Red-brown sand + gravel, moist, no odor	
							Grades to brown sandy clay, dry, no odor	
5								5
					80	0.0	Grades to mottled tan + gray sandy clay, dry, no odor	
							Grades to tan clayey sand, dry, no odor	
10								10
					75	0.0	SAA	
15							Grades to tan sandy clay, moist, no odor	15
					85	0.0	Grades to red-brown sand + gravel, moist, no odor	
20								20
		6T4 @20-23' X			75	0.0	SAA, becomes saturated ~ 22' bgs	
25							End boring @ 25', inst 10' screen (temp well)	25
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: _____ Project Name: 4060 CLR Hole#: GP-5

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1115 Finish: 1200

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary	Modifier	Moisture	Consistency	Color	Notes	Depth
0							Gray to tan sand + gravel, wet (snowmelt), no odor						0
							Tan sand + gravel, moist, no odor						
					88	0.0	Tan to gray clayey sand w/ gravel + cobbles, dry, no odor						
5							Brown clayey sand, dry, no odor						5
							Grades to mottled brown + gray clayey sand, dry, no odor						
					80	0.0	SAA						
10													10
					90	0.0	Grades to tan - red med-f sand, dry, no odor						
							Grades to red-brown sand, gravel, cobbles,						
15							dry, no odor (weathered bedrock)						15
					90	0.0	SAA						
20													20
		X	GP-5 20-23'		60	0.0	Grades to gray sandy clay, saturated, no odor						
							Grades back to weathered bedrock, saturated, no odor						
25							End boring @ 25'; Inst 15' screen (temp well)						25
30													30
35													35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling _____ | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FC05859.001 Project Name: 4060 CLR Hole#: GP-6

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1200 Finish: 1245

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe / Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0					90	0.0	Grass/vegetation, top soil, moist, no odor. Brown sandy clay w/ organic matter, moist, no odor	0
5					100	0.0	Grades to mottled brown + gray clayey sand, dry, no odor	5
10					100	0.0	SAA	10
15					80	0.0	Grades to red-brown sand, gravel, cobbles, dry, no odor (weathered bedrock)	15
20		X	GP-6 @ 20-20'	▼	80	0.0	SAA, w/ increasing cobble content, moist	20
25							Tan clay, plastic, saturated, no odor. Weathered bedrock, saturated, no odor. End boring @ 25'; temp well	25
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FI05859.001 Project Name: 4060 County Line Rd Hole#: GP-7

CTL Representative DM Hole Location: _____ Elevation: _____ Start: 1245 Finish: 1400

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	RCZ % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Grass/vegetation, top soil, heavy oil stains + odor	0
					95	0.0	Grades to brown sandy clay, moist, w/ organic matter - No stainings, but slight oil odor.	
5								5
					85	0.0	Grades to tan med-fine sand w/ pebbles, cobbles. Dry. No stain or odor.	
10								10
					80	0.0	SAA	
15								15
					80	0.0	Grades to brown to tan sandy clay, stiff, moist, no odor. Grades to red-brown med-f sand & gravel, moist, no odor.	
20		X					SAA, becoming saturated ~ 20.	20
		GP-7 @ 20-21'			80	0.0		
25							End boring @ 25', set temp well.	25
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Appendix B

Laboratory Analytical Results

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	GRO (TVPH) mg/Kg
A8012-01	GP-1	03/26/13	03/27/13	< 0.5
A8012-02	S-8	03/26/13	03/27/13	0.95
A8012-04	GP-2	03/26/13	03/27/13	< 0.5
A8012-05	GP-3	03/26/13	03/27/13	< 0.5
A8012-06	GP-4	03/26/13	03/27/13	< 0.5
A8012-07	GP-5	03/26/13	03/27/13	< 0.5
A8012-08	GP-6	03/26/13	03/27/13	< 0.5
A8012-09	GP-7	03/26/13	03/27/13	< 0.5

GRO (TVPH) Method: EPA-8260B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	DRO (TEPH) mg/Kg
A8012-01	GP-1	03/26/13	03/28/13	< 10.0
A8012-02	S-8	03/26/13	03/28/13	65.5
A8012-04	GP-2	03/26/13	03/28/13	< 10.0
A8012-05	GP-3	03/26/13	03/28/13	< 10.0
A8012-06	GP-4	03/26/13	03/28/13	< 10.0
A8012-07	GP-5	03/26/13	03/28/13	< 10.0
A8012-08	GP-6	03/26/13	03/28/13	< 10.0
A8012-09	GP-7	03/26/13	03/28/13	< 10.0

DRO (TEPH) Method: EPA-8015B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	HEM mg/Kg
A8012-01	GP-1	03/26/13	04/03/13	< 50
A8012-02	S-8	03/26/13	04/03/13	316
A8012-04	GP-2	03/26/13	04/03/13	< 50
A8012-05	GP-3	03/26/13	04/03/13	< 50
A8012-06	GP-4	03/26/13	04/03/13	< 50
A8012-07	GP-5	03/26/13	04/03/13	< 50
A8012-08	GP-6	03/26/13	04/03/13	< 50
A8012-09	GP-7	03/26/13	04/03/13	< 50

HEM Method: EPA-9071B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-1
Laboratory ID: A8012-01

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	108	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: S-8
Laboratory ID: A8012-02

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	112	81-128
Bromofluorobenzene	88	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-1
Laboratory ID: A8012-03

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	100	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-2
Laboratory ID: A8012-04

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	107	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-3
Laboratory ID: A8012-05

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	104	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-4
Laboratory ID: A8012-06

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-5
Laboratory ID: A8012-07

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	109	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-6
Laboratory ID: A8012-08

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	105	81-128
Bromofluorobenzene	95	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-7
Laboratory ID: A8012-09

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	108	81-128
Bromofluorobenzene	96	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-3
Laboratory ID: A8012-10

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-4
Laboratory ID: A8012-11

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	100	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	92	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-5
Laboratory ID: A8012-13

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-6
Laboratory ID: A8012-14

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-7
Laboratory ID: A8012-15

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	102	68-120
Toluene-d8	97	81-128
Bromofluorobenzene	92	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.
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W.O. NUMBER A8012

CHAIN-OF-CUSTODY REPORT

COMPANY NAME: CTL Thompson Fort Collins
PROJECT MANAGER: Dina Hoag
PROJECT NUMBER: FCC5859.001
PROJECT LOCATION OR NAME: 4000 County Line Road
SAMPLER'S SIGNATURE:

	SAMPLE ID	DATE/TIME SAMPLED	SAMPLE MATRIX: SOIL (S) AIR (A) AQUEOUS (W) OTHER (O)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED: BTEX / MTBE / TVPH	TEPH (DRO)	OIL & GREASE (HEM)	VOC 624 / 8260 (TOTAL) TCLP	SVOC 625 / 8270 / PAH (TOTAL / TCLP)	pH / TSS / TDS	RCRA 8 METALS (TOTAL / TCLP / DISSOLVED)	React. / Ignite. / Corr. / Paint Filt.	BTEX/TVPH Emissions Vapor	BTEX Soil Vapor	TO-14 / TO-15 / TVPH Vapor	NITRATE / NITRITE / AMMONIA	BOD / COD	PCBs	OTHER: HOLD AFTER ANALYSIS	HOLD, DON'T ANALYZE
01	GP-1	3/26/13 0855	S	1	X		X	X												
02	SB	3/26/13 0850	S	1	X		X	X												
03	GP-1	3/26/13 0850	W	2				X												
04	GP-2	3/26/13 0920	S	1	X		X	X												
05	GP-3	3/26/13 1015	S	1	X		X	X												
06	GP-4	3/26/13 1045	S	1	X		X	X												
07	GP-5	3/26/13 1130	S	1	X		X	X												
08	GP-6	3/26/13 1215	S	1	X		X	X												
09	GP-7	3/26/13 1300	S	1	X		X	X												
10	GP-3	3/26/13 1515	W	2				X												
11	GP-4	3/26/13 1405	W	2				X												
12	GP-2	3/26/13 1435	W	2				X												

PAGE 1 OF 2

TURNAROUND TIME
- [X] Normal (≤10 Working Days)
- [ ] 3 Day (1.5 x Normal Rates)
- [ ] Next Day (2 x Normal Rates)
- [ ] Same Day (4 x Normal Rates)

NEED EMAIL? ___ YES X NO

COMMENTS:

LOGGED IN BY: SW

Sample Preservative: [X] ≤ 6° C [ ] None [ ] Other [ ] Acid [ ] Filtered

RELINQUISHED BY:		DATE: 3-27-13	RELINQUISHED BY: VPM
COMPANY:	CTL Thompson	TIME: 8:30	COMPANY: JLT
RELINQUISHED BY:		DATE:	RELINQUISHED BY:
COMPANY:		TIME:	COMPANY:

TECHNOLOGY LABORATORY, INC.
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W.O. NUMBER A8012

CHAIN-OF-CUSTODY REPORT

COMPANY NAME: CTL Thompson IE
PROJECT MANAGER: Dana Hevis
PROJECT NUMBER: FC0559.001
PROJECT LOCATION OR NAME: Weld County Line Road
SAMPLER'S SIGNATURE:

	SAMPLE ID	DATE/TIME SAMPLED	SAMPLE MATRIX: SOIL (S) AIR (A) AQUEOUS (W) OTHER (O)	NUMBER OF CONTAINERS	BTEX / MTBE / TVPH	TEPH (DRO)	OIL & GREASE	VOC 624 / 8260 (TOTAL / TCLP)	SVOC 625 / 8270 / PAH (TOTAL / TCLP)	pH / TSS / TDS	RCRA 8 METALS (TOTAL / TCLP / DISSOLVED)	React. / Ignite. / Corr. / Paint Filt.	BTEX/TVPH Emissions Vapor	BTEX Soil Vapor	TO-14 / TO-15 / TVPH Vapor	NITRATE / NITRITE / AMMONIA	BOD / COD	PCBs			OTHER						HOLD AFTER ANALYSIS	HOLD, DON'T ANALYZE
	GP-5	3/26/13 1445	W	3				X																			
	GP-6	3/26/13 1500	W	3				X																			
	GP-7	3/26/13 1520	W	3				X																			

PAGE 2 OF 2

TURNAROUND TIME

- [x] Normal (≤10 Working Days)
- [ ] 3 Day (1.5 x Normal Rates)
- [ ] Next Day (2 x Normal Rates)
- [ ] Same Day (4 x Normal Rates)

NONCONFORMANT? ___ YES X NO

COMMENTS:

LOGGED IN BY: SW

Sample Preservative: [x] ≤ 6° C [ ] Acid [ ] None [ ] Filtered [ ] Other

RELINQUISHED BY:		DATE: 3-27-13	RELINQUISHED BY:
COMPANY:	CTL Thompson	TIME: 8:30	COMPANY: TLE
RELINQUISHED BY:		DATE:	RELINQUISHED BY:
COMPANY:		TIME:	COMPANY:

September 17, 2013

INA Group, LLC
6333 Apples' Way, Suite 115
Lincoln, NE 68516

Attention: Tom Beckius

Subject: Supplemental Phase II Environmental Site Assessment
4060 County Line Road, Erie, Colorado
CTL | T Project No. FC05859.001

INTRODUCTION

This report presents the analytical results for soil and groundwater samples collected during the Supplemental Phase II Environmental Site Assessment (ESA) of 4060 County Line Road in Erie, Colorado, hereafter known as "the site". The site is developed with an abandoned former pre-cast concrete manufacturing plant.

BACKGROUND

CTL | Thompson (CTL) conducted a limited Phase II ESA of 4060 County Line Road in Erie, Colorado (CTL Project No. FC05859.001, final report dated April 12, 2013). Among the findings of the investigation, petroleum hydrocarbons were identified in soils within the former pre-cast concrete manufacturing building on the site. The limited assessment performed within the building was not intended to allow for horizontal or vertical delineation of the extent of contamination.

The objective of the Supplemental Phase II ESA was to better delineate the horizontal and vertical extent of petroleum hydrocarbons inside the building. In addition, representative building materials were sampled, composited, and analyzed for disposal characteristics.

DRILLING AND SAMPLING

On July 19, 2013, Mr. Dana Harris of CTL mobilized to the site with subcontractor DrillPro, Inc.. A truck-mounted direct push drill rig was used to advance eight borings (GP-9 through GP-16).

Two hand-excavated surficial soil samples (S-17 and S-18) were collected using a disposable plastic trowel from the trench inside the pre-cast building. Boring and sample locations are shown on Figure 1.

During advancement of each boring, soil samples were collected continuously in 4-foot teflon cores down to a maximum depth of 20 feet below grade.

Soils from core samples were observed in the field using disposable vinyl examination gloves changed after every sample. After the soils were visually inspected, the soil sample from each core was divided. A portion of the sample was transferred into a plastic zip-loc bag and sealed; the other portion of the sample was promptly placed into a uniquely identified glass jar and packed tightly to minimize voids. Samples were containerized for potential laboratory analysis at approximate 5-foot intervals. Sample jars were then placed into a cooler chilled with ice for in-field storage and transit to the laboratory. The samples in the plastic bags were warmed and allowed to sit undisturbed to allow possible volatile organic compounds (VOCs) in the soils to vaporize into the headspace of the bags. A photoionization detector (PID) was used to determine the field concentration of VOCs of the headspace in the zip-loc bags.

Following completion of soil sampling, 1-inch PVC casings with slotted screen were inserted into the boreholes as temporary wells to facilitate groundwater sampling. Groundwater samples were collected using check-ball sampling device and clean disposable tubing. Upon completion of sampling, the temporary wells were removed and each borehole was backfilled with cuttings and hydrated bentonite pellets.

Samples collected for laboratory analysis were delivered under chain of custody protocol to ALS laboratory in Fort Collins, Colorado, an independent analytical laboratory.

FIELD OBSERVATIONS

Boring logs are presented in Appendix A. Soils generally consisted of sandy clays and clayey sands underlain by weathered claystone/sandstone bedrock (generally observed as sand, gravel, pebbles, and cobbles) at depths between 15 and 20 feet below grade. Saturated soils were encountered in several borings within weathered bedrock at depths of approximately 18 to 20 feet below grade.

The interior of the building had a moderate to strong ambient petroleum odor, making it difficult to assess soils for odors during drilling. However, as shown on the boring logs, PID measurements were generally less than, or very slightly higher than, 10 parts per million by volume (ppmv), which is typically indicative of background (ambient PID readings inside the building ranged from 0.5 to 1.2 ppmv) Light surficial staining was observed on soils in various locations inside the building. The trench inside the pre-cast building was partially filled with dumped wastes, but visible soils inside the trench generally appeared similar to those of the dirt floor elsewhere in the building, with light staining and a petroleum odor.

LABORATORY ANALYTICAL RESULTS

Soils

An iterative approach was designed for laboratory analysis of samples collected from soil borings (shallow soils collected from the trench were all analyzed, as planned). The

agreed strategy would be to initially analyze each sample collected from the depth of 5 feet below grade. Because the form oil was believed to have been spray-applied at the surface, it was reasonable to assume that contamination would have entered at the ground surface and migrated downward. If no significant contamination was present at 5 feet depth below grade, it would be reasonable to assume that significant contamination would not be found at deeper depths from the form oil application. Therefore, each soil sample from the 5-foot below grade depth level was initially submitted to be analyzed for oil & grease by EPA Method 9071 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260; remaining samples were held at the laboratory. Following receipt of initial analytical results, selected deeper samples were analyzed for oil & grease and BTEX, based on initial analytical results. Due to accelerated laboratory turnaround, all sample analyses were completed within the EPA-established method holding times for oil & grease and BTEX. Laboratory analytical results are included in Appendix B, and soil results are summarized on Table 1 below.

Table 1
Soil Analytical Results – Inside Pre-Cast Building

Boring No.	Depth (feet)	Sample Date	O&G[1,2] (mg/kg[3])	Benzene (µg/kg[3])	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)
GP-2	21-22	3/26/2013	< 50	< 10	< 10	< 10	< 10
GP-9[4]	5	7/19/2013	< 110	< 5.4	< 5.4	< 5.4	< 5.4
GP-10[4]	5	7/19/2013	< 110	< 5.0	< 5.0	< 5.0	< 5.0
GP-11[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-12[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-13[4]	5	7/19/2013	< 110	< 4.8	< 4.8	< 4.8	< 4.8
GP-14[4]	5	7/19/2013	< 110	< 5.4	< 5.4	< 5.4	< 5.4
GP-15[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-16	5	7/19/2013	380	< 5.4	< 5.4	< 5.4	< 5.4
	10	7/19/2013	< 120	< 5.7	< 5.7	< 5.7	< 5.7
	15	7/19/2013	< 100	< 4.7	< 4.7	< 4.7	< 4.7
	20	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
S-8	1-2	3/26/2013	316	< 10	< 10	< 10	< 10
S-17	1-2	7/19/2013	**5800**	< 5.1	< 5.1	< 5.1	< 5.1
S-18	1-2	7/19/2013	**1500**	< 4.8	< 4.8	< 4.8	< 4.8
Colorado OPS Limit[5]			500	260	140000	190000	260000

1. Results in bold exceed regulatory comparison value
2. Total petroleum hydrocarbons as Oil & Grease by EPA Method 9071
3. mg/kg = milligrams per kilogram. µg/kg = micrograms per kilogram
4. Samples collected at 5-foot intervals, but only the samples from 5-foot depth were analyzed.
5. Colorado Department of Labor and Employment, Division of Oil and Public Safety, Tier I Risk Based Screening Levels, 2005.

With the exception of boring GP-16, none of the 5-foot depth soil samples contained oil & grease or BTEX above laboratory method detection limits (MDLs). The 5-foot depth sample from GP-16 contained an oil & grease concentration of 380 milligrams per kilogram (mg/kg), which is less than the Colorado limit of 500 milligrams per kilogram (mg/kg) for USTs, which is not directly applicable to releases from the pre-cast operation but is the most relevant regulatory standard. BTEX were not detected above MDLs. The soil samples from 10 feet, 15 feet and 20 feet below grade at GP-16 were also analyzed, but neither oil and grease nor BTEX were detected above MDLs.

The surficial soil samples S-17 and S-18, collected from the trench inside the building, contained oil & grease at concentrations of 5,800 mg/kg and 1,500 mg/kg, respectively, both exceeding the OPS limit; neither sample contained BTEX above MDLs. Analysis for PAHs was not performed.

Groundwater

Limited amounts of groundwater were present in each temporary well; however, four of the wells (GP-10, GP-12, GP-13, and GP-16) went dry while attempting to purge and a sample could not be collected. Groundwater samples were collected from temporary wells GP-9, GP-11, GP-14, and GP-15 and were analyzed for oil & grease by EPA Method 1664 and BTEX by EPA method 8260. Laboratory analytical results are included in Appendix B and are summarized on Table 2 below.

Table 2
Groundwater Analytical Results – Inside Pre-Cast Building

Sample No.	Sample Date	Oil &Grease (mg/l[1])	Benzene (µg/l[1])	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)
GP-9	7/19/2013	< 5.7	< 1	7.6	< 1	< 1
GP-11	7/19/2013	< 5.3	< 1	2.6	< 1	< 1
GP-14	7/19/2013	< 5.6	< 1	1.3	< 1	< 1
GP-15	7/19/2013	< 5.6	< 1	0.56	< 1	< 1
Colorado GWS[2]		None established	5	560	700	1,400

1. mg/l = milligrams per liter. µg/liter = micrograms per liter
2. Colorado Department of Health and Environment, Water Quality Control Division, The Basic Standards for Groundwater (Regulation 41). 5 CCR 1002-41, January 31, 2013.

Toluene was detected in all four groundwater samples, at concentrations up to 7.6 µg/l, which is well below the Colorado groundwater standard of 560 µg/l. None of the other target analytes were detected above MDLs.

BUILDING WASTE CHARACTERIZATION

CTL collected representative samples of building materials that were visibly stained (presumably with form oil). Materials sampled included wood (approximately 70 percent of the sample by weight) and metal. The materials were composited in a clean 5-gallon bucket and submitted to ALS laboratory to be analyzed for polychlorinated biphenyls (PCBs) and toxicity characteristic leaching procedure (TCLP) benzene. As shown on the lab report in Appendix B, PCBs were not detected above MDLs and the TCLP benzene concentration was less than 10 µg/l, which is less than the hazardous waste limit of 500 µg/l. Therefore, the building debris will not be considered a characteristic hazardous waste.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this investigation, oil-contaminated soil within the pre-cast building appears to be limited to the area of the trench and depths of less than 10 feet immediately north of the east end of the trench (where boring GP-16 was advanced). Groundwater under the building contained low levels of toluene, at concentrations well below Colorado groundwater standards. Following demolition, the building debris stained with form oil will not be considered characteristically hazardous due to benzene content.

If it is desired to enter into the Colorado Voluntary Cleanup (VCUP) program, we recommend that a final site development plan be prepared and that a work plan be developed to address the concerns identified during this and prior investigations. Depending on the proposed development and use of the property, limited soil or other remedial actions may be warranted. CTL would be happy to assist with remedial design, work plan development, and the VCUP application and project management process.

LIMITATIONS

The subsurface investigation and chemical analysis were performed for specific parameters, as detailed in this letter. The accuracy and reliability of environmental studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. An independent laboratory performed laboratory analysis. We are not responsible for the accuracy of data presented by others. The services performed should not be interpreted as providing any guarantee that the materials are free and clear of all hazardous or toxic materials.

We believe that our services were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

Thank you for choosing us to assist you with this project. If you have any questions or would like further clarification regarding this letter, please contact us.

Very truly yours,

CTL | THOMPSON, INC.

Dana L. Harris
Environmental Department Manager, Fort Collins

Matthew L. Wardlow, P.E.
Environmental Department Manager, Denver

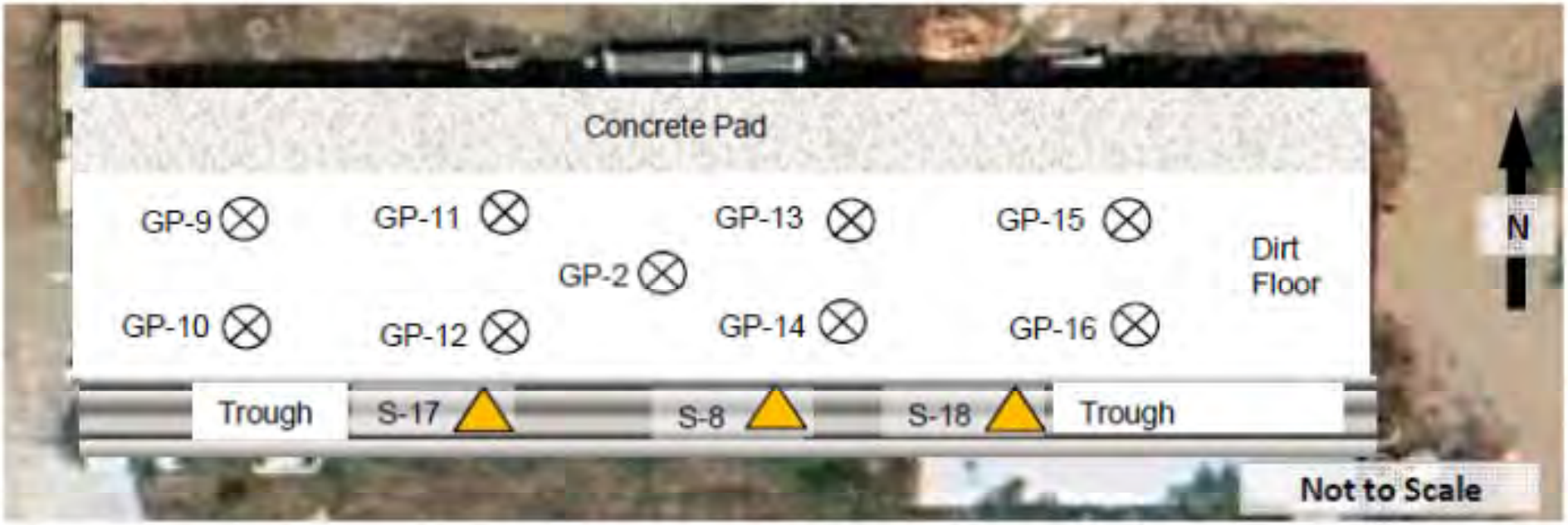

Figure 1

Warehouse Sample Locations

Supplemental Phase II Environmental Site Assessment

4060 County Line Road, Erie, Colorado

CTL No. FC05859.001

Appendix A

Boring Logs

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4060 CLR Erie Hole#: GP-9

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	PID Blow Count	% Fines	USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Gray clayey sand w/ gravel, pebbles, cobbles - dry, slight odor	0
				2.1			Grades to red-brown clayey sand, dry, no odor	
				3.1				
5	x	0920					Grades to red-yellow clayey sand, dry, no odor	5
				3.1				
10	x	0940		1.0			SAA, becoming moist, no odor	10
				2.1				
15	x	0950						15
				2.1			Grades to weathered bedrock, becomes saturated	
20	x	0930					Drive to 25' + set keep well	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y / N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date

Ambient PID → 0.5 - 1.2 ppm

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 4061 CLR Erie Hole#: GP-10

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Gray clayey sand, dry, slight odor	0
				11.4			Gray - brown clayey sand, gravel, cobbles, dry, sl. odor	
							Grades to red-brown clayey sand, dry, no odor	
5	x	0850					Grades to yellow brown clayey sand, dry, sl. odor	5
				3.7			↓	
							clay grades out - still slight odor,	
10	x	0855		4.9			↓ becoming moist	10
				3.7				
15	x	0905						15
				7.2		▽	Grades to wk bdrx + saturated, odor grades out	
20	x	0915					push to 25' ptl keeps wet	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling _____ | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 4060 CLR ERE Hole#: GP-11

CTL Representative DM Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe / Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Gry clayey sand, dry, slight odor	0
				3.0			Red-brown clayey sand, gravel, cobbles, dry, sl. odor	
							Red-brown clayey sand, dry, sl. odor	
5		x0930		2.3			Grades to red-yellow clayey sand, dry, sl. odor	5
10		x0935		3.7				10
							SAA	
				3.5			becoming moist	
15		x0945						15
				4.2			Grades to wx bdrx, becomes saturated, sl. odor still present	
20		x0955					Push to 25', set well	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set. Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling ___ ___ ___ Date

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4960 CLR Erie Hole#: GP-12

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count / PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes
0				8.1			Gray clayey soil Brown clayey sand, gravel, cobbles, dry, moderate odor
5		x 1000		6.6			Grades to brown clayey sand, dry, sl. odor
							Grades to yellow-red clayey sand, dry, sl odor
10		x 1005		10.0			
				9.3			
15		x 1015					
				6.7			Grades to wx bedrock, dry, sl. odor
20		x 1025					-not saturated -
							Push to 25' - set well
25							
30							
35							

Depth

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California Piezometer set: Y N Depth to Bedrock _____

Bulk Groundwater During Drilling Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4060 CLR Erie Hole#: GP-17

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count (PID)	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0								0
				7.0			Gray sandy clay, dry, moderate odor	
							Brown sandy clay, dry, moderate odor	
5		X 1040						5
				4.3			Grades to tan sandy clay, dry, slight odor	
10		X 1045		6.2			Grades to tan clay, stiff, moist, moderate odor	10
				5.1			Grades to tan clayey sand, dry, sl. odor	
15		X 1055						15
				3.1			Grades to wx bedrock, dry, moist, no odor	
20		X 1105					not saturated	20
							push to 21' set well	
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 4060 CLR Fuse Hole#: GP-14

CTL Representative DM Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	PID Blow Count	% Fines	USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes
0				51.4			Gray sandy clay, dry, moderate odor
							Brown sandy clay, dry, sl. odor
5		x 1110		6.1			
							Grades to SAA, tan, dry, sl. odor
10		x 1115		11.3			
				4.4			
15		x 1125					
				7.7			Grades to wet brn, dry, no odor
20		x 1135					Push to 25', set well
25							
30							
35							

Depth (duplicate)

Split Spoon C California Bulk

Clay Sand Gravel Claystone Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling Groundwater After Drilling _____ Date

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4060 CLR Ext Hole#: GP-15

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count / PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes
0							GW Sandy clay, gravel, cobbles, dry, sl. odor
				2.4			Brown sandy clay, dry, no odor
5		×1140					Grades to tan sandy clay, clay, dry, no odor
				2.7			
10		×1145		2.5			Becomes moist, sl. odor
							Grades to sandy gravel, dry, no odor
				2.0			Grades to clay, moist, no odor
15		×1155					Grades to weathered bedrock, moist, sl. odor
				2.9			no sat.
20		×1200					Refusal to 21' set well
25							
30							
35							

Depth

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 406N CLR Erie Hole#: GP-16

CTL Representative DN Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count (PID)	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Tan. sand, gravel, cobbles, dry, no odor	0
				6.2			Grades to brown sandy clay, dry, no odor	
5		x1210						5
				4.7			Grades to tan clayey sand, dry, no odor	
							Grades to tan clay, stiff, dry, no odor	
10		x1215		3.0				10
				6.8			Grades to tan clayey sand, moist, no odor	
15		x1220					Grades to tan sandy clay, dry, no odor	15
				4.8			Grades to tan to red sand, gravel, pebbles, cobbles, dry, no odor (Wx bedrock)	
20		x1230					Push to 25' set well	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date _____

Appendix B

Laboratory Analytical Results

1307328

GC/MS Volatiles:

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met with the following exceptions:

1. Sample 1307328-35, provided for volatiles, had a pH > 2 at the time of analysis. All other samples had a pH < 2 at the time of analysis.

2. All internal standard recoveries were within acceptance criteria with the following exception:

Internal Standard	Sample	Direction
1,4-Dichlorobenzene-d4	1307328-9MS	Low

No further action was taken.

Oil and Grease:

The water samples were prepared and analyzed according to EPA Method 1664A procedures utilizing the current revision of SOP 671.

The soil samples were prepared and analyzed according to SW-846, 3rd Edition procedures based on Method SW-9071 and utilizing the current revision of SOP 640.

All acceptance criteria were met.

PCBs:

The extract was analyzed using GC/ECD (electron capture detectors) with an RTX-5 capillary column according to the current revision of SOP 409 based on SW-846 Method 8082. All positive results were then confirmed on an RTX-CLPesticidesII column. Unless interferences were present, the quantitation of each analyte is the higher of the concentrations obtained from each column that met initial and continuing calibration criteria. Note that analyst raw data annotation may provide further clarification.

All surrogate recoveries were within acceptable limits with the following exception:

Surrogate	Sample	Direction
Decachlorobiphenyl	39	Low

It is the practice of ALS to evaluate the recovery of both surrogates in samples and associated quality control samples, but to control on only one of the two surrogates for this test.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307328
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-9 (5')	1307328-1		SOIL	19-Jul-13	8:05
GP-10 (5')	1307328-2		SOIL	19-Jul-13	8:50
GP-11 (5')	1307328-3		SOIL	19-Jul-13	9:30
GP-12 (5')	1307328-4		SOIL	19-Jul-13	10:00
GP-13 (5')	1307328-5		SOIL	19-Jul-13	10:40
GP-14 (5')	1307328-6		SOIL	19-Jul-13	11:10
GP-15 (5')	1307328-7		SOIL	19-Jul-13	11:40
GP-16 (5')	1307328-8		SOIL	19-Jul-13	12:10
S-17	1307328-9		SOIL	19-Jul-13	14:10
S-18	1307328-10		SOIL	19-Jul-13	14:20
GP-9 (10')	1307328-11		SOIL	19-Jul-13	8:10
GP-9 (15')	1307328-12		SOIL	19-Jul-13	8:20
GP-9 (20')	1307328-13		SOIL	19-Jul-13	8:30
GP-10 (10')	1307328-14		SOIL	19-Jul-13	8:55
GP-10 (15')	1307328-15		SOIL	19-Jul-13	9:05
GP-10 (20')	1307328-16		SOIL	19-Jul-13	9:15
GP-11 (10')	1307328-17		SOIL	19-Jul-13	9:35
GP-11 (15')	1307328-18		SOIL	19-Jul-13	9:45
GP-11 (20')	1307328-19		SOIL	19-Jul-13	9:55
GP-12 (10')	1307328-20		SOIL	19-Jul-13	10:05
GP-12 (15')	1307328-21		SOIL	19-Jul-13	10:15
GP-12 (20')	1307328-22		SOIL	19-Jul-13	10:25
GP-13 (10')	1307328-23		SOIL	19-Jul-13	10:45
GP-13 (15')	1307328-24		SOIL	19-Jul-13	10:55
GP-13 (20')	1307328-25		SOIL	19-Jul-13	11:05
GP-14 (10')	1307328-26		SOIL	19-Jul-13	11:15
GP-14 (15')	1307328-27		SOIL	19-Jul-13	11:25
GP-14 (20')	1307328-28		SOIL	19-Jul-13	11:35
GP-15 (10')	1307328-29		SOIL	19-Jul-13	11:45
GP-15 (15')	1307328-30		SOIL	19-Jul-13	11:55

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307328
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-15 (20')	1307328-31		SOIL	19-Jul-13	12:00
GP-16 (10')	1307328-32		SOIL	19-Jul-13	12:15
GP-16 (15')	1307328-33		SOIL	19-Jul-13	12:20
GP-16 (20')	1307328-34		SOIL	19-Jul-13	12:30
GP-9	1307328-35		WATER	19-Jul-13	13:30
GP-11	1307328-36		WATER	19-Jul-13	14:00
GP-14	1307328-37		WATER	19-Jul-13	14:15
GP-15	1307328-38		WATER	19-Jul-13	14:25
BW-19	1307328-39		SOLID	19-Jul-13	17:30
BW-19	1307328-40		LEACHAT	19-Jul-13	17:30
Trip Blank	1307328-41		WATER	19-Jul-13	

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 1 of 4

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC 05859.001-205	SITE ID	–
		EDD FORMAT	–
		PURCHASE ORDER	–
COMPANY NAME	CTL Thompson	BILL TO COMPANY	SAA
SEND REPORT TO	Dana Harris	INVOICE ATTN TO	
ADDRESS	351 Linden St. #140	ADDRESS	
CITY / STATE / ZIP	Fort Collins, CO 80524	CITY / STATE / ZIP	
PHONE	970-206-9455	PHONE	
FAX		FAX	
E-MAIL	dharris@ctlthompson.com	E-MAIL	

DATE 7/19/13

TURNAROUND Standard/1 wk.

DISPOSAL By Lab or Return to Client

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Oil + Grease	BTEX 8260	9071
1	GP-9 (5')	S	7/19/13	0905	2			X	X	
2	GP-10 (5')	S	7/19/13	0930	2			X	X	
3	GP-11 (5')	S	7/19/13	0950	2			X	X	
4	GP-12 (5')	S	7/19/13	1000	2			X	X	
5	GP-13 (5')	S	7/19/13	1040	2			X	X	
6	GP-14 (5')	S	7/19/13	1110	2			X	X	
7	GP-15 (5')	S	7/19/13	1140	2			X	X	
8	GP-16 (5')	S	7/19/13	1210	2			X	X	
9	S-17	S	7/19/13	1410	2			X	X	
10	S-18	S	7/19/13	1420	2			X	X	

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- [X] LEVEL II (Standard QC)
- [ ] LEVEL III (Std QC + forms)
- [ ] LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group

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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 2 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
11	GP-9 (10')	S	7/19/13	0810	2			HOLD
12	GP-9 (15')	S	7/19/13	0820	2			HOLD
13	GP-9 (20')	S	7/19/13	0830	2			HOLD
14	GP-10 (10')	S	7/19/13	0855	2			HOLD
15	GP-10 (15')	S	7/19/13	0905	2			HOLD
16	GP-10 (20')	S	7/19/13	0915	2			HOLD
17	GP-11 (10')	S	7/19/13	0935	2			HOLD
18	GP-11 (15')	S	7/19/13	0945	2			HOLD
19	GP-11 (20')	S	7/19/13	0955	2			HOLD
20	GP-12 (10')	S	7/19/13	1005	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitt	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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Form 202r8

WORKORDER # 1307328

PAGE 3 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dave Harris
PROJECT No.	FCO5859.001-205	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	CTL Thompson	BILL TO COMPANY	
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS		ADDRESS	
CITY / STATE / ZIP		CITY / STATE / ZIP	
PHONE		PHONE	
FAX		FAX	
E-MAIL		E-MAIL	

DATE 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date (or Time)	Sample Time (or Date)	# Bottles	Pres.	QC	
21	GP-12 (15')	S	1015	7/19/13	2			HOLD
22	GP-12 (20')	S	1025	7/19/13	2			HOLD
23	GP-13 (10')	S	1045	7/19/13	2			HOLD
24	GP-13 (15')	S	1055	7/19/13	2			HOLD
25	GP-13 (20')	S	1105	7/19/13	2			HOLD
26	GP-14 (10')	S	1115	7/19/13	2			HOLD
27	GP-14 (15')	S	1125	7/19/13	2			HOLD
28	GP-14 (20')	S	1135	7/19/13	2			HOLD
29	GP-15 (10')	S	1145	7/19/13	2			HOLD
30	GP-15 (15')	S	1155	7/19/13	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dave Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 4 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4068 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE: 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date/Time	Sample Time/Date	# Bottles	Pres.	QC	907.1/1664	8260	O&G + Grease	BTEX	PCBs	TCLP Benzene
31	GP-15 (20')	S	1200	7/19/13	2			HOLD					
32	GP-16 (10')	S	1215	7/19/13	2			HOLD					
33	GP-16 (15')	S	1220	7/19/13	2			HOLD					
34	GP-16 (20')	S	1270	7/19/13	2			HOLD					
35	GP-9	W	1330	7/19/13	4					X	X		
36	GP-11	W	1400	7/19/13	4					X	X		
37	GP-14	W	1415	7/19/13	4					X	X		
38	GP-15	W	1425	7/19/13	4					X	X		
39	BW-19	NS	1730	7/19/13	2							X	X
													40

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: 41 TB

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Thompson Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO *
7. Were airbills / shipping documents present and/or removable?	(DROP OFF)	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	(NO) *
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1	2	3
Temperature (°C):	4.8	1.2	3.0
No. of custody seals on cooler:	0	→	
DOT Survey/ Acceptance Information — External µR/hr reading:	N/A	→	
Background µR/hr reading:	10		

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / (NA)** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*please see page 2

If applicable, was the client contacted? **YES / NO / (NA)** Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 7/20/13

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

Additional Information:

(*6) Trip Blank not listed on COC. Arrived in cooler #1 added to W.O. as 1307328-41 (2 VIALS)

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? **YES** (See Table below) / **NO**

pH Excursion:

ALS Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1307328-35-4	GP-9	7	<2	H_2SO_4	1.0	50048	O&G	LAS 7/20/13@ 0940
36-4	GP-11	4	↓	↓	↓	↓	↓	↓
37-4	GP-14	3	↓	↓	↓	↓	↓	↓
38-4	GP-15	4	↓	↓	↓	↓	↓	↓

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: 7/20/13

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-9 (5')	**Lab ID:**	1307328-1
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 08:05	**Percent Moisture:**	7.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.4	UG/KG	1	7/23/2013 18:46
TOLUENE	ND		5.4	UG/KG	1	7/23/2013 18:46
ETHYLBENZENE	ND		5.4	UG/KG	1	7/23/2013 18:46
M+P-XYLENE	ND		5.4	UG/KG	1	7/23/2013 18:46
O-XYLENE	ND		5.4	UG/KG	1	7/23/2013 18:46
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/23/2013 18:46
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	7/23/2013 18:46
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/23/2013 18:46
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-10 (5')	**Lab ID:**	1307328-2
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 08:50	**Percent Moisture:**	7.1

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5	UG/KG	1	7/23/2013 19:09
TOLUENE	ND		5	UG/KG	1	7/23/2013 19:09
ETHYLBENZENE	ND		5	UG/KG	1	7/23/2013 19:09
M+P-XYLENE	ND		5	UG/KG	1	7/23/2013 19:09
O-XYLENE	ND		5	UG/KG	1	7/23/2013 19:09
Surr: DIBROMOFLUOROMETHANE	*97*		*61-134*	*%REC*	1	7/23/2013 19:09
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/23/2013 19:09
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 19:09
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-11 (5')	**Lab ID:**	1307328-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 09:30	**Percent Moisture:**	7.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/23/2013 19:33
TOLUENE	ND		5.2	UG/KG	1	7/23/2013 19:33
ETHYLBENZENE	ND		5.2	UG/KG	1	7/23/2013 19:33
M+P-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:33
O-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:33
Surr: DIBROMOFLUOROMETHANE	*98*		*61-134*	*%REC*	1	7/23/2013 19:33
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 19:33
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 19:33
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-12 (5')	**Lab ID:**	1307328-4
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 10:00	**Percent Moisture:**	8.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/23/2013 19:56
TOLUENE	ND		5.2	UG/KG	1	7/23/2013 19:56
ETHYLBENZENE	ND		5.2	UG/KG	1	7/23/2013 19:56
M+P-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:56
O-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:56
Surr: DIBROMOFLUOROMETHANE	*99*		*61-134*	*%REC*	1	7/23/2013 19:56
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 19:56
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 19:56
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-13 (5')	**Lab ID:**	1307328-5
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 10:40	**Percent Moisture:**	7.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		4.8	UG/KG	1	7/23/2013 20:20
TOLUENE	ND		4.8	UG/KG	1	7/23/2013 20:20
ETHYLBENZENE	ND		4.8	UG/KG	1	7/23/2013 20:20
M+P-XYLENE	ND		4.8	UG/KG	1	7/23/2013 20:20
O-XYLENE	ND		4.8	UG/KG	1	7/23/2013 20:20
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/23/2013 20:20
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 20:20
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/23/2013 20:20
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-14 (5')	**Lab ID:**	1307328-6
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 11:10	**Percent Moisture:**	9.1

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.4	UG/KG	1	7/23/2013 20:44
TOLUENE	ND		5.4	UG/KG	1	7/23/2013 20:44
ETHYLBENZENE	ND		5.4	UG/KG	1	7/23/2013 20:44
M+P-XYLENE	ND		5.4	UG/KG	1	7/23/2013 20:44
O-XYLENE	ND		5.4	UG/KG	1	7/23/2013 20:44
Surr: DIBROMOFLUOROMETHANE	*98*		*61-134*	*%REC*	1	7/23/2013 20:44
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 20:44
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 20:44
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-15 (5')	**Lab ID:**	1307328-7
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 11:40	**Percent Moisture:**	7.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/24/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/24/2013 14:46
TOLUENE	ND		5.2	UG/KG	1	7/24/2013 14:46
ETHYLBENZENE	ND		5.2	UG/KG	1	7/24/2013 14:46
M+P-XYLENE	ND		5.2	UG/KG	1	7/24/2013 14:46
O-XYLENE	ND		5.2	UG/KG	1	7/24/2013 14:46
Surr: DIBROMOFLUOROMETHANE	*99*		*61-134*	*%REC*	1	7/24/2013 14:46
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/24/2013 14:46
Surr: 4-BROMOFLUOROBENZENE	*96*		*52-151*	*%REC*	1	7/24/2013 14:46
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-16 (5')	**Lab ID:**	1307328-8
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:10	**Percent Moisture:**	8.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/24/2013**	PrepBy: **SDW**
BENZENE	ND		5.4	UG/KG	1	7/24/2013 15:09
TOLUENE	ND		5.4	UG/KG	1	7/24/2013 15:09
ETHYLBENZENE	ND		5.4	UG/KG	1	7/24/2013 15:09
M+P-XYLENE	ND		5.4	UG/KG	1	7/24/2013 15:09
O-XYLENE	ND		5.4	UG/KG	1	7/24/2013 15:09
Surr: DIBROMOFLUOROMETHANE	*99*		*61-134*	*%REC*	1	7/24/2013 15:09
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	7/24/2013 15:09
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/24/2013 15:09
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	**380**		**110**	**MG/KG**	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	S-17	**Lab ID:**	1307328-9
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 14:10	**Percent Moisture:**	2.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/25/2013**	PrepBy: **SDW**
BENZENE	ND		5.1	UG/KG	1	7/25/2013 13:29
TOLUENE	ND		5.1	UG/KG	1	7/25/2013 13:29
ETHYLBENZENE	ND		5.1	UG/KG	1	7/25/2013 13:29
M+P-XYLENE	ND		5.1	UG/KG	1	7/25/2013 13:29
O-XYLENE	ND		5.1	UG/KG	1	7/25/2013 13:29
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/25/2013 13:29
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/25/2013 13:29
Surr: 4-BROMOFLUOROBENZENE	*94*		*52-151*	*%REC*	1	7/25/2013 13:29
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	**5800**		**100**	**MG/KG**	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	S-18	**Lab ID:**	1307328-10
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 14:20	**Percent Moisture:**	0.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/24/2013**	PrepBy: **SDW**
BENZENE	ND		4.8	UG/KG	1	7/24/2013 15:56
TOLUENE	ND		4.8	UG/KG	1	7/24/2013 15:56
ETHYLBENZENE	ND		4.8	UG/KG	1	7/24/2013 15:56
M+P-XYLENE	ND		4.8	UG/KG	1	7/24/2013 15:56
O-XYLENE	ND		4.8	UG/KG	1	7/24/2013 15:56
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	7/24/2013 15:56
Surr: TOLUENE-D8	*104*		*57-135*	*%REC*	1	7/24/2013 15:56
Surr: 4-BROMOFLUOROBENZENE	*89*		*52-151*	*%REC*	1	7/24/2013 15:56
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	**1500**		**100**	**MG/KG**	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-9	**Lab ID:**	1307328-35
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 13:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 16:21
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 16:21
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 16:21
O-XYLENE	ND		1	UG/L	1	7/21/2013 16:21
TOLUENE	**7.6**		**1**	**UG/L**	1	7/21/2013 16:21
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	7/21/2013 16:21
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	7/21/2013 16:21
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	7/21/2013 16:21
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.7	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-11	**Lab ID:**	1307328-36
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 14:00	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 17:08
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 17:08
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 17:08
O-XYLENE	ND		1	UG/L	1	7/21/2013 17:08
TOLUENE	**2.6**		**1**	**UG/L**	1	7/21/2013 17:08
Surr: 4-BROMOFLUOROBENZENE	*96*		*85-115*	*%REC*	1	7/21/2013 17:08
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	7/21/2013 17:08
Surr: TOLUENE-D8	*102*		*85-115*	*%REC*	1	7/21/2013 17:08
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.3	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-14	**Lab ID:**	1307328-37
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 14:15	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 17:55
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 17:55
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 17:55
O-XYLENE	ND		1	UG/L	1	7/21/2013 17:55
TOLUENE	**1.3**		**1**	**UG/L**	1	7/21/2013 17:55
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	7/21/2013 17:55
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	7/21/2013 17:55
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	7/21/2013 17:55
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.6	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-15	**Lab ID:**	1307328-38
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 14:25	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 18:42
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 18:42
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 18:42
O-XYLENE	ND		1	UG/L	1	7/21/2013 18:42
TOLUENE	**0.56**	J	**1**	**UG/L**	1	7/21/2013 18:42
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	7/21/2013 18:42
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	7/21/2013 18:42
Surr: TOLUENE-D8	*103*		*85-115*	*%REC*	1	7/21/2013 18:42
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.6	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	BW-19	**Lab ID:**	1307328-39
Legal Location:		**Matrix:**	SOLID
Collection Date:	7/19/2013 17:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/25/2013**	PrepBy: **TLB**
AROCLOR-1016	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1221	ND		67	UG/KG	1	7/26/2013 18:44
AROCLOR-1232	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1242	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1248	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1254	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1260	ND		33	UG/KG	1	7/26/2013 18:44
Surr: TETRACHLORO-M-XYLENE	*77*		*61-120*	*%REC*	1	7/26/2013 18:44
Surr: DECACHLOROBIPHENYL	*30*	*	*56-130*	*%REC*	1	7/26/2013 18:44

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	BW-19	**Lab ID:**	1307328-40
Legal Location:		**Matrix:**	LEACHATE
Collection Date:	7/19/2013 17:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/26/2013**	PrepBy: **SDW**
BENZENE	ND		10	UG/L	10	7/26/2013 19:05
Surr: DIBROMOFLUOROMETHANE	*101*		*84-118*	*%REC*	10	7/26/2013 19:05
Surr: TOLUENE-D8	*104*		*85-115*	*%REC*	10	7/26/2013 19:05
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	10	7/26/2013 19:05

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	Trip Blank	**Lab ID:**	1307328-41
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 15:34
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 15:34
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 15:34
O-XYLENE	ND		1	UG/L	1	7/21/2013 15:34
TOLUENE	ND		1	UG/L	1	7/21/2013 15:34
Surr: 4-BROMOFLUOROBENZENE	*97*		*85-115*	*%REC*	1	7/21/2013 15:34
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	7/21/2013 15:34
Surr: TOLUENE-D8	*103*		*85-115*	*%REC*	1	7/21/2013 15:34

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	Trip Blank	**Lab ID:**	1307328-41
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

Diesel Range Organics:

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	Trip Blank	**Lab ID:**	1307328-41
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **EX130725-3-1** Instrument ID **Balance** Method: **EPA1664**

LCS Sample ID: **EX130725-3** Units: **MG/L** Analysis Date: **7/25/2013**

Client ID: Run ID: **EX130725-3A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	39.9	5	39.9		100	78-114			18	

LCSD Sample ID: **EX130725-3** Units: **MG/L** Analysis Date: **7/25/2013**

Client ID: Run ID: **EX130725-3A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	40.5	5	39.9		102	78-114	39.9	1	18	

MB Sample ID: **EX130725-3** Units: **MG/L** Analysis Date: **7/25/2013**

Client ID: Run ID: **EX130725-3A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	ND	5								

The following samples were analyzed in this batch: 1307328-35 1307328-36 1307328-37 1307328-38

QC BATCH REPORT

Batch ID: **EX130725-8-1** Instrument ID **Balance** Method: **SW9071**

LCS Sample ID: **EX130725-8** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2050	100	2060		100	80-120			20	

LCSD Sample ID: **EX130725-8** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2040	100	2060		99	80-120	2050	1	20	

MB Sample ID: **EX130725-8** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	ND	100								

MS Sample ID: **1307328-3** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: **GP-11 (5')** Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2200	107	2210	110	97	80-120			20	

MSD Sample ID: **1307328-3** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: **GP-11 (5')** Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2230	107	2220	110	98	80-120	2200	1	20	

The following samples were analyzed in this batch:

1307328-1	1307328-2	1307328-3
1307328-4	1307328-5	1307328-6
1307328-7	1307328-8	1307328-9
1307328-10		

QC BATCH REPORT

Batch ID: **EX130725-7-1** Instrument ID **Pest-1** Method: **SW8082**

LCS Sample ID: **EX130725-7** Units: **UG/KG** Analysis Date: **7/26/2013 17:36**
Client ID: Run ID: **PT130726-11** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	130	33.3	133		97	64-126			50	
AROCLOR-1260	141	33.3	133		106	60-130			50	
Surr: TETRACHLORO-M-XYLEN	15.5		16.7		93	61-120				
Surr: DECACHLOROBIPHENYL	15.1		16.7		91	56-130				

LCSD Sample ID: **EX130725-7** Units: **UG/KG** Analysis Date: **7/26/2013 17:59**
Client ID: Run ID: **PT130726-11** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	128	33.3	133		96	64-126	130	1	50	
AROCLOR-1260	141	33.3	133		105	60-130	141	1	50	
Surr: TETRACHLORO-M-XYLEN	15.3		16.7		92	61-120		1		
Surr: DECACHLOROBIPHENYL	15.3		16.7		92	56-130		1		

MB Sample ID: **EX130725-7** Units: **UG/KG** Analysis Date: **7/26/2013 16:28**
Client ID: Run ID: **PT130726-11** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	ND	33								
AROCLOR-1221	ND	67								
AROCLOR-1232	ND	33								
AROCLOR-1242	ND	33								
AROCLOR-1248	ND	33								
AROCLOR-1254	ND	33								
AROCLOR-1260	ND	33								
Surr: TETRACHLORO-M-XYLEN	15.3		16.7		92	61-120				
Surr: DECACHLOROBIPHENYL	14.9		16.7		89	56-130				

The following samples were analyzed in this batch: 1307328-39

QC BATCH REPORT

Batch ID: **VL130721-4-1** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL130721-4** Units: **%REC** Analysis Date: **7/21/2013 14:24**
Client ID: Run ID: **VL130721-4A** Prep Date: **7/21/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZE	25.1		25		100	85-115				
Surr: DIBROMOFLUOROMETHA	24.8		25		99	84-118				
Surr: TOLUENE-D8	25.5		25		102	85-115				
BENZENE	9.55	1	10		96	83-117			20	
ETHYLBENZENE	9.8	1	10		98	81-113			20	
M+P-XYLENE	19.9	1	20		100	82-115			20	
O-XYLENE	10	1	10		100	81-115			20	
TOLUENE	9.56	1	10		96	82-113			20	

LCSD Sample ID: **VL130721-4** Units: **%REC** Analysis Date: **7/21/2013 14:47**
Client ID: Run ID: **VL130721-4A** Prep Date: **7/21/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZE	24.9		25		100	85-115		1		
Surr: DIBROMOFLUOROMETHA	25.1		25		100	84-118		1		
Surr: TOLUENE-D8	25.4		25		102	85-115		0		
BENZENE	9.65	1	10		96	83-117	9.55	1	20	
ETHYLBENZENE	9.62	1	10		96	81-113	9.8	2	20	
M+P-XYLENE	19.6	1	20		98	82-115	19.9	2	20	
O-XYLENE	9.95	1	10		99	81-115	10	1	20	
TOLUENE	9.38	1	10		94	82-113	9.56	2	20	

MB Sample ID: **VL130721-4** Units: **%REC** Analysis Date: **7/21/2013 15:10**
Client ID: Run ID: **VL130721-4A** Prep Date: **7/21/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZE	24.5		25		98	85-115				
Surr: DIBROMOFLUOROMETHA	24.9		25		99	84-118				
Surr: TOLUENE-D8	25.6		25		102	85-115				
BENZENE	ND	1								
ETHYLBENZENE	ND	1								
M+P-XYLENE	ND	1								
O-XYLENE	ND	1								
TOLUENE	ND	1								

The following samples were analyzed in this batch: 1307328-35 1307328-36 1307328-37 1307328-38 1307328-41

QC BATCH REPORT

Batch ID: **VL130723-2-4** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130723-2** Units: **UG/KG** Analysis Date: **7/23/2013 11:34**
Client ID: Run ID: **VL130723-2A** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	40.1	5	40		100	73-126			30	
TOLUENE	37.9	5	40		95	71-127			30	
ETHYLBENZENE	37.2	5	40		93	74-127			30	
M+P-XYLENE	75.4	5	80		94	79-126			30	
O-XYLENE	37.6	5	40		94	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.2		50		100	61-134				
Surr: TOLUENE-D8	48.5		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	50.6		50		101	52-151				

LCSD Sample ID: **VL130723-2** Units: **UG/KG** Analysis Date: **7/23/2013 11:56**
Client ID: Run ID: **VL130723-2A** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	37.3	5	40		93	73-126	40.1	7	30	
TOLUENE	34.8	5	40		87	71-127	37.9	9	30	
ETHYLBENZENE	34.2	5	40		85	74-127	37.2	8	30	
M+P-XYLENE	69.5	5	80		87	79-126	75.4	8	30	
O-XYLENE	34.8	5	40		87	77-125	37.6	8	30	
Surr: DIBROMOFLUOROMETHA	50.6		50		101	61-134		1		
Surr: TOLUENE-D8	48.8		50		98	57-135		1		
Surr: 4-BROMOFLUOROBENZE	50.8		50		102	52-151		0		

MB Sample ID: **VL130723-2** Units: **UG/KG** Analysis Date: **7/23/2013 12:17**
Client ID: Run ID: **VL130723-2A** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	49.2		50		98	61-134				
Surr: TOLUENE-D8	48.5		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	49.3		50		99	52-151				

The following samples were analyzed in this batch:

1307328-1	1307328-2	1307328-3
1307328-4	1307328-5	1307328-6

Batch ID: **VL130724-2-2** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130724-2** Units: **UG/KG** Analysis Date: **7/24/2013 13:39**

Client ID: Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	40.9	5	40		102	73-126			30	
TOLUENE	39	5	40		97	71-127			30	
ETHYLBENZENE	38.3	5	40		96	74-127			30	
M+P-XYLENE	77.2	5	80		96	79-126			30	
O-XYLENE	38.6	5	40		97	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.2		50		100	61-134				
Surr: TOLUENE-D8	48.8		50		98	57-135				
Surr: 4-BROMOFLUOROBENZE	51.1		50		102	52-151				

LCSD Sample ID: **VL130724-2** Units: **UG/KG** Analysis Date: **7/24/2013 14:01**

Client ID: Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.4	5	40		103	73-126	40.9	1	30	
TOLUENE	38.4	5	40		96	71-127	39	1	30	
ETHYLBENZENE	37.6	5	40		94	74-127	38.3	2	30	
M+P-XYLENE	76	5	80		95	79-126	77.2	2	30	
O-XYLENE	38.3	5	40		96	77-125	38.6	1	30	
Surr: DIBROMOFLUOROMETHA	51.2		50		102	61-134		2		
Surr: TOLUENE-D8	49.3		50		99	57-135		1		
Surr: 4-BROMOFLUOROBENZE	50.5		50		101	52-151		1		

MB Sample ID: **VL130724-2** Units: **UG/KG** Analysis Date: **7/24/2013 14:23**

Client ID: Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	49.5		50		99	61-134				
Surr: TOLUENE-D8	48.3		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	49.2		50		98	52-151				

QC BATCH REPORT

Batch ID: **VL130724-2-2** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307328-10** Units: **UG/KG** Analysis Date: **7/24/2013 16:20**

Client ID: **S-18** Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	22.6	4.66	37.3	4.8	61	73-126			30	*
TOLUENE	17.7	4.66	37.3	4.8	47	71-127			30	*
ETHYLBENZENE	13.1	4.66	37.3	4.8	35	74-127			30	*
M+P-XYLENE	25.5	4.66	74.6	4.8	34	79-126			30	*
O-XYLENE	13	4.66	37.3	4.8	35	77-125			30	*
Surr: DIBROMOFLUOROMETHA	48.1		46.6		103	61-134				
Surr: TOLUENE-D8	45.7		46.6		98	57-135				
Surr: 4-BROMOFLUOROBENZE	46.1		46.6		99	52-151				

MSD Sample ID: **1307328-10** Units: **UG/KG** Analysis Date: **7/24/2013 16:42**

Client ID: **S-18** Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	24.4	4.88	39	4.8	62	73-126	22.6	8	30	*
TOLUENE	19.1	4.88	39	4.8	49	71-127	17.7	8	30	*
ETHYLBENZENE	14	4.88	39	4.8	36	74-127	13.1	7	30	*
M+P-XYLENE	27.8	4.88	78.1	4.8	36	79-126	25.5	8	30	*
O-XYLENE	14	4.88	39	4.8	36	77-125	13	7	30	*
Surr: DIBROMOFLUOROMETHA	50.2		48.8		103	61-134		4		
Surr: TOLUENE-D8	47.6		48.8		98	57-135		4		
Surr: 4-BROMOFLUOROBENZE	47.8		48.8		98	52-151		4		

The following samples were analyzed in this batch: 1307328-7 1307328-8 1307328-10

Batch ID: **VL130725-2-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130725-2** Units: **UG/KG** Analysis Date: **7/25/2013 12:20**

Client ID: Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.2	5	40		103	73-126			30	
TOLUENE	39.1	5	40		98	71-127			30	
ETHYLBENZENE	38.4	5	40		96	74-127			30	
M+P-XYLENE	77.6	5	80		97	79-126			30	
O-XYLENE	39	5	40		98	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.1		50		100	61-134				
Surr: TOLUENE-D8	48.6		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	50.5		50		101	52-151				

LCSD Sample ID: **VL130725-2** Units: **UG/KG** Analysis Date: **7/25/2013 12:44**

Client ID: Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	40.1	5	40		100	73-126	41.2	3	30	
TOLUENE	37.9	5	40		95	71-127	39.1	3	30	
ETHYLBENZENE	37.1	5	40		93	74-127	38.4	4	30	
M+P-XYLENE	75.2	5	80		94	79-126	77.6	3	30	
O-XYLENE	38.1	5	40		95	77-125	39	2	30	
Surr: DIBROMOFLUOROMETHA	50.7		50		101	61-134		1		
Surr: TOLUENE-D8	48.1		50		96	57-135		1		
Surr: 4-BROMOFLUOROBENZE	50.1		50		100	52-151		1		

MB Sample ID: **VL130725-2** Units: **UG/KG** Analysis Date: **7/25/2013 13:05**

Client ID: Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	49.5		50		99	61-134				
Surr: TOLUENE-D8	48		50		96	57-135				
Surr: 4-BROMOFLUOROBENZE	48.9		50		98	52-151				

QC BATCH REPORT

Batch ID: **VL130725-2-1** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307328-9** Units: **UG/KG** Analysis Date: **7/25/2013 13:51**

Client ID: **S-17** Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	35.2	5.04	40.4	5.1	87	73-126			30	
TOLUENE	34	5.04	40.4	5.1	84	71-127			30	
ETHYLBENZENE	25.5	5.04	40.4	5.1	63	74-127			30	*
M+P-XYLENE	50.7	5.04	80.7	5.1	63	79-126			30	*
O-XYLENE	24.2	5.04	40.4	5.1	60	77-125			30	*
Surr: DIBROMOFLUOROMETHA	53.9		50.4		107	61-134				
Surr: TOLUENE-D8	53.9		50.4		107	57-135				
Surr: 4-BROMOFLUOROBENZE	41.8		50.4		83	52-151				

MSD Sample ID: **1307328-9** Units: **UG/KG** Analysis Date: **7/25/2013 14:15**

Client ID: **S-17** Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	24.2	5.02	40.2	5.1	60	73-126	35.2	37	30	*+
TOLUENE	18	5.02	40.2	5.1	45	71-127	34	61	30	*+
ETHYLBENZENE	12.2	5.02	40.2	5.1	30	74-127	25.5	71	30	*+
M+P-XYLENE	23.4	5.02	80.4	5.1	29	79-126	50.7	74	30	*+
O-XYLENE	11.5	5.02	40.2	5.1	29	77-125	24.2	71	30	*+
Surr: DIBROMOFLUOROMETHA	53.7		50.2		107	61-134		0		
Surr: TOLUENE-D8	50.4		50.2		100	57-135		7		
Surr: 4-BROMOFLUOROBENZE	47.9		50.2		95	52-151		14		

The following samples were analyzed in this batch: 1307328-9

Client: CTL Thompson
Work Order: 1307328
Project: FC05859.001-205 4060 CLR Erie

QC BATCH REPORT

Batch ID: **VL130726-4-3** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL130726-4** Units: **UG/L** Analysis Date: **7/26/2013 17:30**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	9.72	1	10		97	83-117			20	
Surr: DIBROMOFLUOROMETHA	25.8		25		103	84-118				
Surr: TOLUENE-D8	25.2		25		101	85-115				
Surr: 4-BROMOFLUOROBENZE	24.4		25		98	85-115				

LCSD Sample ID: **VL130726-4** Units: **UG/L** Analysis Date: **7/26/2013 17:53**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	9.33	1	10		93	83-117	9.72	4	20	
Surr: DIBROMOFLUOROMETHA	25.9		25		104	84-118		0		
Surr: TOLUENE-D8	25.8		25		103	85-115		3		
Surr: 4-BROMOFLUOROBENZE	25		25		100	85-115		3		

MB Sample ID: **EX130725-4** Units: **UG/L** Analysis Date: **7/26/2013 18:41**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	10								
Surr: DIBROMOFLUOROMETHA	256		250		102	84-118				
Surr: TOLUENE-D8	258		250		103	85-115				
Surr: 4-BROMOFLUOROBENZE	251		250		100	85-115				

MB Sample ID: **VL130726-4** Units: **UG/L** Analysis Date: **7/26/2013 18:17**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	1								
Surr: DIBROMOFLUOROMETHA	25.8		25		103	84-118				
Surr: TOLUENE-D8	25.9		25		104	85-115				
Surr: 4-BROMOFLUOROBENZE	24.6		25		99	85-115				

The following samples were analyzed in this batch: 1307328-40

1307521

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

Oil and Grease:
The samples were prepared and analyzed according to SW-846, 3rd Edition procedures based on Method SW-9071 and utilizing the current revision of SOP 640.

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307521
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-16 (10')	1307521-1		SOIL	19-Jul-13	12:15
GP-16 (15')	1307521-2		SOIL	19-Jul-13	12:20
GP-16 (20')	1307521-3		SOIL	19-Jul-13	12:30

1307521 7/13/13

ALS Laboratory Group

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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 1 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC 05859.001-205	SITE ID	–
		EDD FORMAT	–
		PURCHASE ORDER	–
COMPANY NAME	CTL Thompson	BILL TO COMPANY	SAA
SEND REPORT TO	Dana Harris	INVOICE ATTN TO	
ADDRESS	351 Linden St. #140	ADDRESS	
CITY / STATE / ZIP	Fort Collins, CO 80524	CITY / STATE / ZIP	
PHONE	970-206-9455	PHONE	
FAX		FAX	
E-MAIL	dharris@ctlthompson.com	E-MAIL	

DATE 7/19/13

TURNAROUND Standard/1 wk.

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Oil + Grease 9071	BTEX 8260
1	GP-9 (5')	S	7/19/13	0905	2			X	X
2	GP-10 (5')	S	7/19/13	0950	2			X	X
3	GP-11 (5')	S	7/19/13	0950	2			X	X
4	GP-12 (5')	S	7/19/13	1000	2			X	X
5	GP-13 (5')	S	7/19/13	1040	2			X	X
6	GP-14 (5')	S	7/19/13	1110	2			X	X
7	GP-15 (5')	S	7/19/13	1140	2			X	X
8	GP-16 (5')	S	7/19/13	1210	2			X	X
9	S-17	S	7/19/13	1410	2			X	X
10	S-18	S	7/19/13	1420	2			X	X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- [X] LEVEL II (Standard QC)
- [ ] LEVEL III (Std QC + forms)
- [ ] LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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1307521 7/20/17

ALS Laboratory Group

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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 2 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	CTL Thompson	BILL TO COMPANY	
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS		ADDRESS	
CITY / STATE / ZIP		CITY / STATE / ZIP	
PHONE		PHONE	
FAX		FAX	
E-MAIL		E-MAIL	

DATE: 7/19/17

TURNAROUND:

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
11	GP-9 (10')	S	7/19/17	0810	2			HOLD
12	GP-9 (15')	S	7/19/17	0820	2			HOLD
13	GP-9 (20')	S	7/19/17	0830	2			HOLD
14	GP-10 (10')	S	7/19/17	0855	2			HOLD
15	GP-10 (15')	S	7/19/17	0905	2			HOLD
16	GP-10 (20')	S	7/19/17	0915	2			HOLD
17	GP-11 (10')	S	7/19/17	0935	2			HOLD
18	GP-11 (15')	S	7/19/17	0945	2			HOLD
19	GP-11 (20')	S	7/19/17	0955	2			HOLD
20	GP-12 (10')	S	7/19/17	1005	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- LEVEL II (Standard QC)
- LEVEL III (Std QC + forms)
- LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/17	0935
RECEIVED BY		LaurenSchmitt	7/20/17	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1307521 7/24/13

ALS Laboratory Group

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Chain-of-Custody

Form 202r8

PROJECT NAME	4060 CLR Esse	SAMPLER	Dave Harris	DATE	7/19/13
PROJECT No.	FCO5858.001-205	SITE ID		TURNAROUND	
		EDD FORMAT			
COMPANY NAME	CTL Thompson	PURCHASE ORDER			
SEND REPORT TO		BILL TO COMPANY			
ADDRESS		INVOICE ATTN TO			
CITY / STATE / ZIP		ADDRESS			
PHONE		CITY / STATE / ZIP			
FAX		PHONE			
E-MAIL		FAX			
		E-MAIL			

WORKORDER: 1307328
PAGE: 3 of 4
DISPOSAL: By Lab or Return to Client

Lab ID	Field ID	Matrix	Sample Date/Time	Sample Time Date	# Bottles	Pres.	QC	
21	GP-12 (15')	S	1015	7/19/13	2			HOLD
22	GP-12 (20')	S	1025	7/19/13	2			HOLD
23	GP-13 (10')	S	1045	7/19/13	2			HOLD
24	GP-13 (15')	S	1055	7/19/13	2			HOLD
25	GP-13 (20')	S	1105	7/19/13	2			HOLD
26	GP-14 (10')	S	1115	7/19/13	2			HOLD
27	GP-14 (15')	S	1125	7/19/13	2			HOLD
28	GP-14 (20')	S	1135	7/19/13	2			HOLD
29	GP-15 (10')	S	1145	7/19/13	2			HOLD
30	GP-15 (15')	S	1155	7/19/13	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dave Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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130752 7/30/13

ALS Laboratory Group

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Chain-of-Custody

Form 202r8

WORKORDER: 1307328

PAGE: 4 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4068 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE: 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date/Time	Sample Time	# Bottles	Pres.	QC	907.1/6014 Oil + Grease	8260 BTEX	PCBs	TCLP Benzene	Oil & Grease	BTEX
31	GP-15 (20')	S	1200	7/19/13	2			HOLD					
32	GP-16 (10')	S	1215	7/19/13	2			HOLD				X	X
33	GP-16 (15')	S	1220	7/19/13	2			HOLD				X	X
34	GP-16 (20')	S	1270	7/19/13	2			HOLD				X	X
35	GP-9	W	1330	7/19/13	4			X	X				
36	GP-11	W	1400	7/19/13	4			X	X				
37	GP-14	W	1415	7/19/13	4			X	X				
38	GP-15	W	1425	7/19/13	4			X	X				
39	BW-19	NS	1730	7/19/13	2					X	X		
											(40)		

Need for Dana Harris email 7/31/13

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: (41) TB

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1307521 7/31/13

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Thompson Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
(6.) Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO *
7. Were airbills / shipping documents present and/or removable?	(DROP OFF)	YES	NO
(8.) Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	(NO) *
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1	2	3					
Temperature (°C):	4.8	1.2	3.0					
No. of custody seals on cooler:	0 →							
DOT Survey/ Acceptance Information: External µR/hr reading:	N/A →							
Background µR/hr reading:	10							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / (NA) (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*please see page 2

If applicable, was the client contacted? YES / NO / (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 7/20/13

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

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1307328 7/23/13

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

Additional Information:

(*6) Trip Blank not listed on COC. Arrived in cooler #1 added to W.O. as 1307328-41 (2 vials)

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? (YES) (See Table below) / NO

pH Excursion:

ALS Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1307328-35-4	GP-9	7	<2	H_2SO_4	1.0	50048	04G	LAS 7/20/13@ 0940
36-4	GP-11	4	↓	↓	↓	↓	↓	↓
37-4	GP-14	3	↓	↓	↓	↓	↓	↓
38-4	GP-15	4	↓	↓	↓	↓	↓	↓

If applicable, was the client contacted? YES / NO / (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: 7/20/13

Form 201r24.xls (06/04/2012)

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Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (10')	**Lab ID:**	1307521-1
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:15	**Percent Moisture:**	14.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		5.7	UG/KG	1	7/30/2013 17:30
TOLUENE	ND		5.7	UG/KG	1	7/30/2013 17:30
ETHYLBENZENE	ND		5.7	UG/KG	1	7/30/2013 17:30
M+P-XYLENE	ND		5.7	UG/KG	1	7/30/2013 17:30
O-XYLENE	ND		5.7	UG/KG	1	7/30/2013 17:30
Surr: DIBROMOFLUOROMETHANE	*104*		*61-134*	*%REC*	1	7/30/2013 17:30
Surr: TOLUENE-D8	*94*		*57-135*	*%REC*	1	7/30/2013 17:30
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	7/30/2013 17:30
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		120	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (15')	**Lab ID:**	1307521-2
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:20	**Percent Moisture:**	3.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		4.7	UG/KG	1	7/30/2013 17:53
TOLUENE	ND		4.7	UG/KG	1	7/30/2013 17:53
ETHYLBENZENE	ND		4.7	UG/KG	1	7/30/2013 17:53
M+P-XYLENE	ND		4.7	UG/KG	1	7/30/2013 17:53
O-XYLENE	ND		4.7	UG/KG	1	7/30/2013 17:53
Surr: DIBROMOFLUOROMETHANE	*101*		*61-134*	*%REC*	1	7/30/2013 17:53
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/30/2013 17:53
Surr: 4-BROMOFLUOROBENZENE	*99*		*52-151*	*%REC*	1	7/30/2013 17:53
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		100	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/30/2013 18:15
TOLUENE	ND		5.2	UG/KG	1	7/30/2013 18:15
ETHYLBENZENE	ND		5.2	UG/KG	1	7/30/2013 18:15
M+P-XYLENE	ND		5.2	UG/KG	1	7/30/2013 18:15
O-XYLENE	ND		5.2	UG/KG	1	7/30/2013 18:15
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/30/2013 18:15
Surr: TOLUENE-D8	*95*		*57-135*	*%REC*	1	7/30/2013 18:15
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/30/2013 18:15
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		110	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

Diesel Range Organics:

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **EX130731-6-1** Instrument ID **Balance** Method: **SW9071**

LCS Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2060	100	2060		100	80-120			20	

LCSD Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2040	100	2060		99	80-120	2060	1	20	

MB Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	100	100								

MS Sample ID: **1307521-2** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: **GP-16 (15')** Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2090	102	2110	100	99	80-120			20	

MSD Sample ID: **1307521-2** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: **GP-16 (15')** Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2090	102	2100	100	100	80-120	2090	0	20	

The following samples were analyzed in this batch: 1307521-1 1307521-2 1307521-3

QC BATCH REPORT

Batch ID: **VL130730-2-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 16:19**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.6	5	40		109	73-126			30	
TOLUENE	40.1	5	40		100	71-127			30	
ETHYLBENZENE	39.2	5	40		98	74-127			30	
M+P-XYLENE	78.3	5	80		98	79-126			30	
O-XYLENE	39.9	5	40		100	77-125			30	
Surr: DIBROMOFLUOROMETHA	51.9		50		104	61-134				
Surr: TOLUENE-D8	48		50		96	57-135				
Surr: 4-BROMOFLUOROBENZE	51.4		50		103	52-151				

LCSD Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 16:43**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.2	5	40		108	73-126	43.6	1	30	
TOLUENE	40	5	40		100	71-127	40.1	0	30	
ETHYLBENZENE	39.1	5	40		98	74-127	39.2	0	30	
M+P-XYLENE	79.9	5	80		100	79-126	78.3	2	30	
O-XYLENE	40.3	5	40		101	77-125	39.9	1	30	
Surr: DIBROMOFLUOROMETHA	51.9		50		104	61-134		0		
Surr: TOLUENE-D8	48.5		50		97	57-135		1		
Surr: 4-BROMOFLUOROBENZE	52.1		50		104	52-151		1		

MB Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 17:06**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	50.9		50		102	61-134				
Surr: TOLUENE-D8	47.7		50		95	57-135				
Surr: 4-BROMOFLUOROBENZE	50.8		50		102	52-151				

Client: CTL Thompson
Work Order: 1307521
Project: FC05859.001-205 4060 CLR Erie

QC BATCH REPORT

Batch ID: **VL130730-2-1** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307521-3** Units: **UG/KG** Analysis Date: **7/30/2013 18:38**

Client ID: **GP-16 (20')** Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.4	5.12	40.9	5.2	101	73-126			30	
TOLUENE	37.4	5.12	40.9	5.2	91	71-127			30	
ETHYLBENZENE	36.7	5.12	40.9	5.2	90	74-127			30	
M+P-XYLENE	73.4	5.12	81.9	5.2	90	79-126			30	
O-XYLENE	37.4	5.12	40.9	5.2	91	77-125			30	
Surr: DIBROMOFLUOROMETHA	53.3		51.2		104	61-134				
Surr: TOLUENE-D8	48.4		51.2		95	57-135				
Surr: 4-BROMOFLUOROBENZE	51.7		51.2		101	52-151				

MSD Sample ID: **1307521-3** Units: **UG/KG** Analysis Date: **7/30/2013 19:02**

Client ID: **GP-16 (20')** Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.7	5.15	41.2	5.2	101	73-126	41.4	1	30	
TOLUENE	37.4	5.15	41.2	5.2	91	71-127	37.4	0	30	
ETHYLBENZENE	35.5	5.15	41.2	5.2	86	74-127	36.7	3	30	
M+P-XYLENE	72.2	5.15	82.3	5.2	88	79-126	73.4	2	30	
O-XYLENE	36	5.15	41.2	5.2	88	77-125	37.4	4	30	
Surr: DIBROMOFLUOROMETHA	52.4		51.5		102	61-134		2		
Surr: TOLUENE-D8	48.9		51.5		95	57-135		1		
Surr: 4-BROMOFLUOROBENZE	51.1		51.5		99	52-151		1		

The following samples were analyzed in this batch: 1307521-1 1307521-2 1307521-3

APPENDIX E

LOCAL GOVERNMENT RESPONSE

Savage and Savage
Memorandum

To: Nick Jacobs, Diverge Homes

From: Michael Savage, Savage and Savage

Date: April 13, 2021

Subject: Review of Phase II Environmental Site Assessment (and Amendment) and Geotechnical Report: 4060 County Line Road, Erie, Colorado

This letter report summarizes my review of three reports prepared for the project site located at 4060 County Line Road, Erie, Colorado. The reports reviewed included the April 12, 2013 CTL/Thompson Phase II Environmental Site Assessment, 4060 County Line Road, Erie, Colorado, the September 17, 2013 CTL/Thompson Supplemental Phase II Environmental Site Assessment, 4060 County Line Road, Erie, Colorado, and the Cole Gardner Geotechnical Preliminary Geotechnical Engineering Report; Proposed Residential Development, 4060 East County Line Road, Erie, Colorado.

I have also identified the information and process for obtaining a "no action determination" for the site. As we are not qualified to prepare and submit the no action determination application, we would recommend Cole Gardner or CTL/Thompson, as both are familiar with the project site.

CTL/Thompson Phase II Site Assessments

Observations April 12, 2013 Phase II

Initial site investigations were conducted during a Phase I environmental site assessment in June 2012. During that investigation hazardous materials were identified as stored at the site with many of the containers observed to be damaged and leaking. Petroleum odors were encountered inside the pre-cast building. Piled soils, concrete, and disposed wastes were observed on-site. Records reviews identified a gasoline underground storage tank (UST) as having been registered to the site. State of Colorado records did not document the removal of the UST or assessment of any releases from the tank.

In early 2013, based on the Phase I findings, a Phase II environmental site assessment was conducted to evaluate the site for overall evidence of contamination. In March 2013 ground penetrating radar was employed to attempt to establish the location of the UST. The ground penetrating radar identified a potential buried object and a change in soil density at specific locations within the site. Subsequent test pit excavations in the suspect areas revealed no UST or staining or odors within the soils at the UST suspect area. Concrete, rebar, and a severed electrical line were observed in the area of modified soil density.

Additional sampling at the site included collection of surficial and subsurface soil samples for chemical evaluation. Results of the chemical analysis of the soil samples did not identify contaminants (TVPH, TEPH, Oil/Grease, VOC) at levels greater than State of Colorado detection limits. Groundwater samples tested did not identify VOC levels above laboratory detection limits.

Conclusions and Recommendations April 12, 2013 Phase II

Based on the ground penetrating radar survey and additional borings and chemical analysis of soils and groundwater, it was concluded that there was no evidence of a gasoline release or a UST present on-site. It was further concluded that further investigation regarding presence of a UST was not warranted.

Investigation of site soils concluded that some impact to surface and subsurface soils occurred to a depth of seven feet in the vicinity of the former pre-cast building. No "gross contamination" of groundwater or subsurface soils across the site was evident.

CTL/Thompson did recommend further investigations to qualify for liability protections under 40 CFR 312.

As a result of preliminary findings from the April 12, 2013 report, additional core drilling and soil sampling was conducted to better delineate vertical and horizontal extent of hydrocarbons within the pre-cast building.

Observations September 17, 2013 Phase II

Eight borings were conducted within the pre-cast building and three surficial soil locations were sampled within the south side of the building July 19, 2013. Samples were collected from the borings at five-foot intervals. Initial chemical analysis included the five-foot depth sample of each boring and the surficial soil samples.

Analysis of boring samples from the five-foot level did not identify any samples with oil & grease, benzene, toluene, ethylbenzene, or xylenes at levels above the Colorado Oil and Public Safety limits (and all but one sample were below detection limits). As there was no contamination detected at the five-foot level, further analyses were not conducted of deeper levels. Two of the three surficial soil samples found oil and grease concentrations significantly above Colorado Oil and Public Safety limits.

Limited groundwater sampling was conducted in the borings as four of the eight borings went dry prior to extracting groundwater samples. Of the four samples obtained, all contained traces of toluene, though all samples were at levels below the Colorado groundwater standard.

Building debris wastes that exhibited staining were sampled and tested for PCB's and benzene contamination. PCBs were not detected above minimum detection levels (MDLs) and benzene concentrations were found to be less than hazardous waste limits.

Conclusions and Recommendations September 17, 2013 Phase II

Based on further sampling, oil contaminated soil was limited to the trench within the pre-cast building and at depths less than ten feet. Groundwater, while containing detectable toluene, had levels below hazardous waste limits. Building debris was not considered hazardous due to benzene content.

It was recommended that if a "no action determination" from the Colorado Department of Public Health and Environment (CDPHE) is to be obtained, a voluntary cleanup and no action determination application should be prepared and filed with CDPHE.

Cole Gardner Geotechnical Engineering Report

Observations

On-site investigations concluded that site soils were comprised of clay and clay-sand extending to a maximum of twelve feet in depth. Additionally, foreign imported fill was placed to a depth of approximately six feet in the south center of the former large building footprint.

Sedimentary claystone bedrock was encountered in borings at depths of 31 to 33 feet, and groundwater was encountered in borings between 17 and 20 feet below the current ground surface.

Conclusions and Recommendations

Given the nature and unknown extent of man-placed fill at the site, the engineers recommended removal and engineered placement and compaction of material that will support foundations, slabs, and other features (e.g., curb and gutter, pavement) that are sensitive to potential movement due to uncontrolled compaction prior to building. Laboratory testing found swell/consolidation of soils of up to three percent.

The same recommendation was made for areas of "native" soil materials at the project site. This precaution results from the clay nature of the soil material, as Colorado clays along the Front Range are often susceptible to shrink and swell when wetted.

Cole Gardner also recommended further borings to evaluate soil materials where building or infrastructure is to be constructed, when final project design is completed.

Recommendations regarding surface drainage control around structures are presented on pages nine and ten and include sloping ground around foundations, extending downspouts to discharge five to ten feet from foundations, interior and exterior buried perimeter drains, and elimination of irrigation (sprinklers) within five feet of buildings. Xeric landscaping was recommended, utilizing little or no supplemental watering of plants. Plantings in general should be restricted to distances more than five feet from foundations, with larger shrubs and trees planted to preclude root presence within five feet of foundations.

Final project designs will dictate more specific recommendations regarding foundations and paved areas.

Obtaining a No Action Determination

To obtain a No Action Determination (NAD) from the CDPHE Hazardous Waste and Materials Division, a stand-alone application following the format of that required for a Voluntary Cleanup Application needs to be submitted to CDPHE by a professional engineer, professional geologist, or company officer. The submitting professional needs to certify that "the property has been cleaned up and that it is protective of human health and environment".

For consideration by CDPHE, a hard copy, an electronic copy (thumb drive), and a check for $2,000.00 must be provided in one submittal. The application format and additional information is contained on the CDPHE Hazardous Waste and Materials Division web site. (https://oitco.hylandcloud.com/Pop/docpop/docpop.aspx)

Whitacre, Christine

From: LuAnn Penfold <lpenfold@mvfpd.org>
Sent: Tuesday, July 20, 2021 9:56 AM
To: Whitacre, Christine
Subject: RE: Records request

Christine,

In looking back at my data files I did find that we responded to an electrical short in an existing building there on March 19, 2006 when the building was occupied by Erie Precast.

LuAnn Penfold, Fire Prevention Specialist
Mountain View Fire Rescue
3561 N. Stagecoach Road, Longmont, CO 80504
720-678-9890 | lpenfold@mvfpd.org | www.mvfpd.org

From: Whitacre, Christine <cwhitacre@ctlthompson.com>
Sent: Monday, July 19, 2021 10:14 AM
To: Prevention <prevention@mvfpd.org>
Subject: Records request

Good morning!

We are seeking records for a property located at 4060 County Line Road in Erie. Parcels: 146718300013 & 146718300003. We are seeking records of hazardous materials incidents, responses, spills, storage tanks or other types of hazardous materials storage or permits for the site or surrounding area. I've attached a site map for further clarification.

Thanks!

Christine Whitacre I Environmental Technician
CTL | Thompson, Inc.
1971 West 12th Avenue
Denver, CO 80204
Office: 303.825.0777
Direct: 303.626.7540
Cell: 217.521.3221
CWhitacre@CTLThompson.com
www.ctlt.com

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Information contained herein may not be complete or accurate. Stamped and signed engineering documents, including those signed digitally, take precedence over preliminary data and electronic communications. CTL¦Thompson will not be liable for the completeness, correctness or readability of electronic data. The electronic data should be checked by the addressee against stamped and signed documents.

APPENDIX F

RESUMES

Resume

Chrissy Whitacre

Environmental Technician

Office Location

Denver, Colorado

Years of Experience

1 Year

Education

B.S. Environmental Science
DePaul University
2010

Ms. Whitacre joined CTL | Thompson in 2018 as an Engineering Field Technician for the Soils Department. Her past background includes plant identification and habitat remediation. Her current responsibilities include Phase I Environmental Site Assessments and Biological Evaluations.

Project Experience

CTL/Thompson
Field technician managing soil inspections on construction sites, pier observation, pre-construction meetings, and field one-points to determine soil compaction curves; various projects, Colorado Front Range

Wetland Delineation, Gallegos Property, Mead, CO

Phase I ESA, Stapleton Northfield, Denver, CO

Phase I ESA, Legacy Ridge, Elizabeth, CO

Phase I ESA, 6985 East Chenango Avenue, Denver, CO

Chicago Botanic Garden, Chicago Il
Assisted in the evaluation of plants for green roofs, and planting trials. Maintained a photographic database of plants for documentation.

Invasive Buckthorn Project, Chicago, Il
Assisted in the transformation of a habitat degraded by buckthorn into an outdoor laboratory, and the study of best methods to repair degraded habitats.

SOYFACE Research Intern, Champaign, Il
Assisted in research on crops gown under elevated carbon dioxide and ozone levels, maintenance of research facility and assistance with grant writing.

Rocky Mountain Catering, Denver, CO
Worked with a production team and families to put together weddings, and managed a staff to execute events.

Matthew L. Wardlow, P.E.

Environmental Department Manager

Office Location
Denver, Colorado

Years of Experience
20 Years

Professional Registration
Registered Professional Engineer: Colorado

Education
B.S. Engineering and Policy, Washington University, St. Louis, MO, 1993

Training & Certifications
40 Hour OSHA Training

Confined Space Training

Mold Remediation Technician

Training Principals of Forced Air Remediation

Asbestos Inspector
Air Monitoring Specialist
Designer

Professional Affiliations
American Society of Civil Engineers

American Society of Foundation Engineers

Colorado Environmental Management Society

Urban Land Institute

Mr. Wardlow has a variety of technical expertise in Phase I and II Environmental Site Assessments, CDPHE Voluntary Cleanup (VCP) applications, asbestos consultation, underground storage tank removals, site characterizations, and assessments under the National Environmental Policy Act. Mr. Wardlow reviews all environmental deliverables, making sure that the latest practices are followed. He has developed a reputation as a consistent and reliable consultant for his clients, which include the City & County of Denver, Auraria Campus and its colleges, and Boulder County. He encompasses a variety of project experience including brownfields, historical mine sites, medical facilities, and wastewater treatment plants.

Project Experience

Regency Athletic Complex at MSU Denver, Denver Colorado
2016 ACEC CO GRAND CONCEPTOR AWARD – Highest Engineering Honor
This former brownfield, located at the southern end of Auraria Campus, was the site of geotechnical and environmental issues from past industrial use. There was also the potential for settlement due to undocumented fill. Mr. Wardlow devised an idea using Deep Dynamic Compaction (DDC), which is a ground improvement technique that densifies the majority of soils and fills in-place by using a drop weight. CTL then provided on-site geotechnical and environmental inspection services, management of contaminants excavated, and also successfully entered the client into the State of Colorado Voluntary Cleanup Program. Measures were also taken to monitor air quality and vibrations from the impact. The solution was about 25% of the removal and replacement costs, and there has been no noticeable settlement.

Other Redevelopment/Voluntary Cleanup Projects:
Prepared Overall 2016 Auraria Campus Materials Management Plan
New Breckenridge Brewery – VCP – Remediation of Pesticides
Community College of Denver Confluence Building
Metro State Hotel and Hospitality Learning Center
Metro State Student Success Building
AHEC 5th Street Parking Garage – VCP – Coal Ash and Asbestos
Gold Hill Mesa - VCP - Subdivision Constructed on Mine Tailings
4th and Santa Fe – VCP Remediation of Chrome Plating Site
ConocoPhillips - Purchase/Redevelopment of 400-acre StorageTek

Other Major Projects and Clients
Denver Department of Environmental Health - 20+ P1 and P2 ESAs
CDOT - Over 30 Asbestos Surveys, Air Clearances of Buildings
Land Developers - Due Diligence Studies and SWMP Consultation
Urban Land Conservancy - P1 and P2 ESAs, IAQ Concerns
CU Boulder - Asbestos Consultant - Ketchum Hall, Hallett Hall
Homebuilders - Due Diligence, Mold and Moisture Consultation
Boulder County Risk Management - On-Call Industrial Hygienist
Boulder Valley School District - On-Call Asbestos Consultant
Regis University - P1 ESA of 7 Parcels of Campus

September 17, 2013

INA Group, LLC
6333 Apples' Way, Suite 115
Lincoln, NE 68516

Attention: Tom Beckius

Subject: Supplemental Phase II Environmental Site Assessment
4060 County Line Road, Erie, Colorado
CTL | T Project No. FC05859.001

INTRODUCTION

This report presents the analytical results for soil and groundwater samples collected during the Supplemental Phase II Environmental Site Assessment (ESA) of 4060 County Line Road in Erie, Colorado, hereafter known as "the site". The site is developed with an abandoned former pre-cast concrete manufacturing plant.

BACKGROUND

CTL | Thompson (CTL) conducted a limited Phase II ESA of 4060 County Line Road in Erie, Colorado (CTL Project No. FC05859.001, final report dated April 12, 2013). Among the findings of the investigation, petroleum hydrocarbons were identified in soils within the former pre-cast concrete manufacturing building on the site. The limited assessment performed within the building was not intended to allow for horizontal or vertical delineation of the extent of contamination.

The objective of the Supplemental Phase II ESA was to better delineate the horizontal and vertical extent of petroleum hydrocarbons inside the building. In addition, representative building materials were sampled, composited, and analyzed for disposal characteristics.

DRILLING AND SAMPLING

On July 19, 2013, Mr. Dana Harris of CTL mobilized to the site with subcontractor DrillPro, Inc.. A truck-mounted direct push drill rig was used to advance eight borings (GP-9 through GP-16).

Two hand-excavated surficial soil samples (S-17 and S-18) were collected using a disposable plastic trowel from the trench inside the pre-cast building. Boring and sample locations are shown on Figure 1.

During advancement of each boring, soil samples were collected continuously in 4-foot teflon cores down to a maximum depth of 20 feet below grade.

Soils from core samples were observed in the field using disposable vinyl examination gloves changed after every sample. After the soils were visually inspected, the soil sample from each core was divided. A portion of the sample was transferred into a plastic zip-loc bag and sealed; the other portion of the sample was promptly placed into a uniquely identified glass jar and packed tightly to minimize voids. Samples were containerized for potential laboratory analysis at approximate 5-foot intervals. Sample jars were then placed into a cooler chilled with ice for in-field storage and transit to the laboratory. The samples in the plastic bags were warmed and allowed to sit undisturbed to allow possible volatile organic compounds (VOCs) in the soils to vaporize into the headspace of the bags. A photoionization detector (PID) was used to determine the field concentration of VOCs of the headspace in the zip-loc bags.

Following completion of soil sampling, 1-inch PVC casings with slotted screen were inserted into the boreholes as temporary wells to facilitate groundwater sampling. Groundwater samples were collected using check-ball sampling device and clean disposable tubing. Upon completion of sampling, the temporary wells were removed and each borehole was backfilled with cuttings and hydrated bentonite pellets.

Samples collected for laboratory analysis were delivered under chain of custody protocol to ALS laboratory in Fort Collins, Colorado, an independent analytical laboratory.

FIELD OBSERVATIONS

Boring logs are presented in Appendix A. Soils generally consisted of sandy clays and clayey sands underlain by weathered claystone/sandstone bedrock (generally observed as sand, gravel, pebbles, and cobbles) at depths between 15 and 20 feet below grade. Saturated soils were encountered in several borings within weathered bedrock at depths of approximately 18 to 20 feet below grade.

The interior of the building had a moderate to strong ambient petroleum odor, making it difficult to assess soils for odors during drilling. However, as shown on the boring logs, PID measurements were generally less than, or very slightly higher than, 10 parts per million by volume (ppmv), which is typically indicative of background (ambient PID readings inside the building ranged from 0.5 to 1.2 ppmv) Light surficial staining was observed on soils in various locations inside the building. The trench inside the pre-cast building was partially filled with dumped wastes, but visible soils inside the trench generally appeared similar to those of the dirt floor elsewhere in the building, with light staining and a petroleum odor.

LABORATORY ANALYTICAL RESULTS

Soils

An iterative approach was designed for laboratory analysis of samples collected from soil borings (shallow soils collected from the trench were all analyzed, as planned). The

agreed strategy would be to initially analyze each sample collected from the depth of 5 feet below grade. Because the form oil was believed to have been spray-applied at the surface, it was reasonable to assume that contamination would have entered at the ground surface and migrated downward. If no significant contamination was present at 5 feet depth below grade, it would be reasonable to assume that significant contamination would not be found at deeper depths from the form oil application. Therefore, each soil sample from the 5-foot below grade depth level was initially submitted to be analyzed for oil & grease by EPA Method 9071 and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260; remaining samples were held at the laboratory. Following receipt of initial analytical results, selected deeper samples were analyzed for oil & grease and BTEX, based on initial analytical results. Due to accelerated laboratory turnaround, all sample analyses were completed within the EPA-established method holding times for oil & grease and BTEX. Laboratory analytical results are included in Appendix B, and soil results are summarized on Table 1 below.

Table 1
Soil Analytical Results – Inside Pre-Cast Building

Boring No.	Depth (feet)	Sample Date	O&G[1,2] (mg/kg[3])	Benzene (µg/kg[3])	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (µg/kg)
GP-2	21-22	3/26/2013	< 50	< 10	< 10	< 10	< 10
GP-9[4]	5	7/19/2013	< 110	< 5.4	< 5.4	< 5.4	< 5.4
GP-10[4]	5	7/19/2013	< 110	< 5.0	< 5.0	< 5.0	< 5.0
GP-11[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-12[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-13[4]	5	7/19/2013	< 110	< 4.8	< 4.8	< 4.8	< 4.8
GP-14[4]	5	7/19/2013	< 110	< 5.4	< 5.4	< 5.4	< 5.4
GP-15[4]	5	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
GP-16	5	7/19/2013	380	< 5.4	< 5.4	< 5.4	< 5.4
	10	7/19/2013	< 120	< 5.7	< 5.7	< 5.7	< 5.7
	15	7/19/2013	< 100	< 4.7	< 4.7	< 4.7	< 4.7
	20	7/19/2013	< 110	< 5.2	< 5.2	< 5.2	< 5.2
S-8	1-2	3/26/2013	316	< 10	< 10	< 10	< 10
S-17	1-2	7/19/2013	**5800**	< 5.1	< 5.1	< 5.1	< 5.1
S-18	1-2	7/19/2013	**1500**	< 4.8	< 4.8	< 4.8	< 4.8
Colorado OPS Limit[5]			500	260	140000	190000	260000

1. Results in bold exceed regulatory comparison value
2. Total petroleum hydrocarbons as Oil & Grease by EPA Method 9071
3. mg/kg = milligrams per kilogram. µg/kg = micrograms per kilogram
4. Samples collected at 5-foot intervals, but only the samples from 5-foot depth were analyzed.
5. Colorado Department of Labor and Employment, Division of Oil and Public Safety, Tier I Risk Based Screening Levels, 2005.

With the exception of boring GP-16, none of the 5-foot depth soil samples contained oil & grease or BTEX above laboratory method detection limits (MDLs). The 5-foot depth sample from GP-16 contained an oil & grease concentration of 380 milligrams per kilogram (mg/kg), which is less than the Colorado limit of 500 milligrams per kilogram (mg/kg) for USTs, which is not directly applicable to releases from the pre-cast operation but is the most relevant regulatory standard. BTEX were not detected above MDLs. The soil samples from 10 feet, 15 feet and 20 feet below grade at GP-16 were also analyzed, but neither oil and grease nor BTEX were detected above MDLs.

The surficial soil samples S-17 and S-18, collected from the trench inside the building, contained oil & grease at concentrations of 5,800 mg/kg and 1,500 mg/kg, respectively, both exceeding the OPS limit; neither sample contained BTEX above MDLs. Analysis for PAHs was not performed.

Groundwater

Limited amounts of groundwater were present in each temporary well; however, four of the wells (GP-10, GP-12, GP-13, and GP-16) went dry while attempting to purge and a sample could not be collected. Groundwater samples were collected from temporary wells GP-9, GP-11, GP-14, and GP-15 and were analyzed for oil & grease by EPA Method 1664 and BTEX by EPA method 8260. Laboratory analytical results are included in Appendix B and are summarized on Table 2 below.

Table 2
Groundwater Analytical Results – Inside Pre-Cast Building

Sample No.	Sample Date	Oil &Grease (mg/l[1])	Benzene (µg/l[1])	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)
GP-9	7/19/2013	< 5.7	< 1	7.6	< 1	< 1
GP-11	7/19/2013	< 5.3	< 1	2.6	< 1	< 1
GP-14	7/19/2013	< 5.6	< 1	1.3	< 1	< 1
GP-15	7/19/2013	< 5.6	< 1	0.56	< 1	< 1
Colorado GWS[2]		None established	5	560	700	1,400

1. mg/l = milligrams per liter. µg/liter = micrograms per liter
2. Colorado Department of Health and Environment, Water Quality Control Division, The Basic Standards for Groundwater (Regulation 41). 5 CCR 1002-41, January 31, 2013.

Toluene was detected in all four groundwater samples, at concentrations up to 7.6 µg/l, which is well below the Colorado groundwater standard of 560 µg/l. None of the other target analytes were detected above MDLs.

BUILDING WASTE CHARACTERIZATION

CTL collected representative samples of building materials that were visibly stained (presumably with form oil). Materials sampled included wood (approximately 70 percent of the sample by weight) and metal. The materials were composited in a clean 5-gallon bucket and submitted to ALS laboratory to be analyzed for polychlorinated biphenyls (PCBs) and toxicity characteristic leaching procedure (TCLP) benzene. As shown on the lab report in Appendix B, PCBs were not detected above MDLs and the TCLP benzene concentration was less than 10 µg/l, which is less than the hazardous waste limit of 500 µg/l. Therefore, the building debris will not be considered a characteristic hazardous waste.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this investigation, oil-contaminated soil within the pre-cast building appears to be limited to the area of the trench and depths of less than 10 feet immediately north of the east end of the trench (where boring GP-16 was advanced). Groundwater under the building contained low levels of toluene, at concentrations well below Colorado groundwater standards. Following demolition, the building debris stained with form oil will not be considered characteristically hazardous due to benzene content.

If it is desired to enter into the Colorado Voluntary Cleanup (VCUP) program, we recommend that a final site development plan be prepared and that a work plan be developed to address the concerns identified during this and prior investigations. Depending on the proposed development and use of the property, limited soil or other remedial actions may be warranted. CTL would be happy to assist with remedial design, work plan development, and the VCUP application and project management process.

LIMITATIONS

The subsurface investigation and chemical analysis were performed for specific parameters, as detailed in this letter. The accuracy and reliability of environmental studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. An independent laboratory performed laboratory analysis. We are not responsible for the accuracy of data presented by others. The services performed should not be interpreted as providing any guarantee that the materials are free and clear of all hazardous or toxic materials.

We believe that our services were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

Thank you for choosing us to assist you with this project. If you have any questions or would like further clarification regarding this letter, please contact us.

Very truly yours,

CTL | THOMPSON, INC.

Dana L. Harris
Environmental Department Manager, Fort Collins

Matthew L. Wardlow, P.E.
Environmental Department Manager, Denver

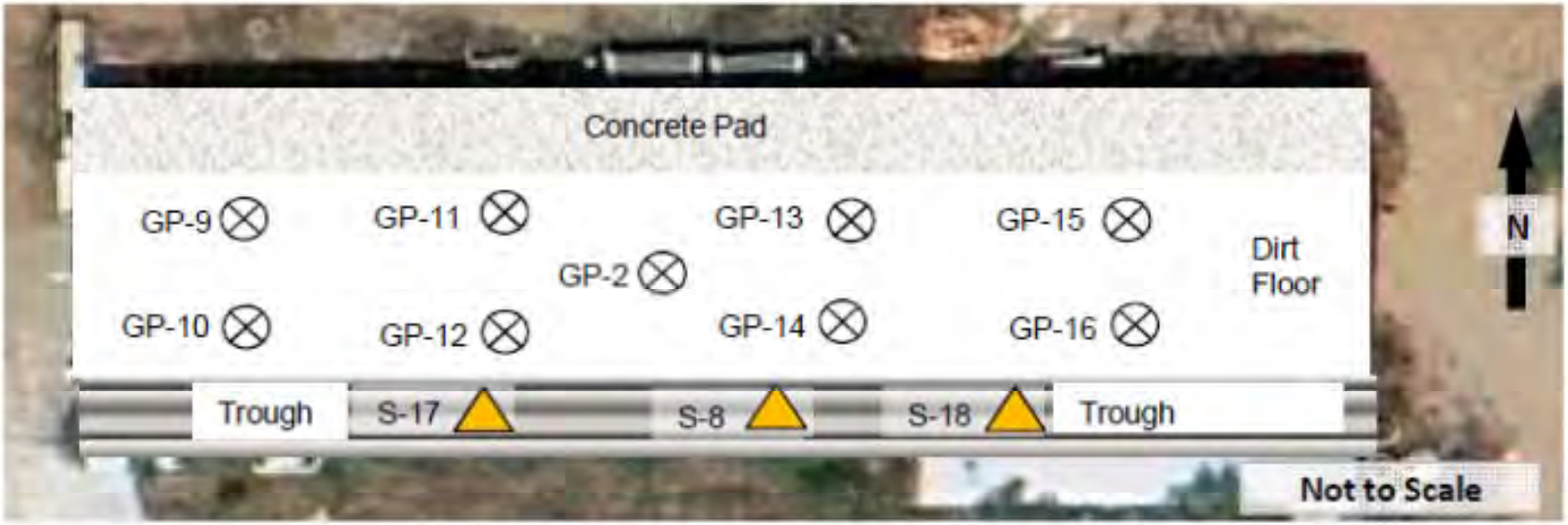

Figure 1

Warehouse Sample Locations

Supplemental Phase II Environmental Site Assessment

4060 County Line Road, Erie, Colorado

CTL No. FC05859.001

Appendix A

Boring Logs

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4060 CLR Erie Hole#: GP-9

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	PID Blow Count	% Fines	USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Gray clayey sand w/ gravel, pebbles, cobbles - dry, slight odor	0
				2.1			Grades to red-brown clayey sand, dry, no odor	
				3.1				
5	x	0920					Grades to red-yellow clayey sand, dry, no odor	5
				3.1				
10	x	0940		1.0			SAA, becoming moist, no odor	10
				2.1				
15	x	0950						15
				2.1			Grades to weathered bedrock, becomes saturated	
20	x	0930					Drive to 25' + set keep well	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y / N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date

Ambient PID → 0.5 - 1.2 ppm

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 4061 CLR Erie Hole#: GP-10

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Gray clayey sand, dry, slight odor	0
				11.4			Gray - brown clayey sand, gravel, cobbles, dry, sl. odor	
							Grades to red-brown clayey sand, dry, no odor	
5	x	0850					Grades to yellow brown clayey sand, dry, sl. odor	5
				3.7			↓	
							clay grades out - still slight odor,	
10	x	0855		4.9			↓ becoming moist	10
				3.7				
15	x	0905						15
				7.2		▽	Grades to wk bdrx + saturated, odor grades out	
20	x	0915					push to 25' ptl keeps wet	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling _____ | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 4060 CLR ERE Hole#: GP-11

CTL Representative DM Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe / Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Gry clayey sand, dry, slight odor	0
				3.0			Red-brown clayey sand, gravel, cobbles, dry, sl. odor	
							Red-brown clayey sand, dry, sl. odor	
5		x0930		2.3			Grades to red-yellow clayey sand, dry, sl. odor	5
10		x0935		3.7				10
							SAA	
				3.5			becoming moist	
15		x0945						15
				4.2			Grades to wx bdrx, becomes saturated, sl. odor still present	
20		x0955					Push to 25', set well	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set. Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling ___ ___ ___ Date

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4960 CLR Erie Hole#: GP-12

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count / PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes
0				8.1			Gray clayey soil Brown clayey sand, gravel, cobbles, dry, moderate odor
5		x 1000		6.6			Grades to brown clayey sand, dry, sl. odor
							Grades to yellow-red clayey sand, dry, sl odor
10		x 1005		10.0			
				9.3			
15		x 1015					
				6.7			Grades to wx bedrock, dry, sl. odor
20		x 1025					-not saturated -
							Push to 25' - set well
25							
30							
35							

Depth

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California Piezometer set: Y N Depth to Bedrock _____

Bulk Groundwater During Drilling Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4060 CLR Erie Hole#: GP-17

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count (PID)	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0								0
				7.0			Gray sandy clay, dry, moderate odor	
							Brown sandy clay, dry, moderate odor	
5		X 1040						5
				4.3			Grades to tan sandy clay, dry, slight odor	
10		X 1045		6.2			Grades to tan clay, stiff, moist, moderate odor	10
				5.1			Grades to tan clayey sand, dry, sl. odor	
15		X 1055						15
				3.1			Grades to wx bedrock, dry, moist, no odor	
20		X 1105					not saturated	20
							push to 21' set well	
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 4060 CLR Fuse Hole#: GP-14

CTL Representative DM Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	PID Blow Count	% Fines	USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes
0				51.4			Gray sandy clay, dry, moderate odor
							Brown sandy clay, dry, sl. odor
5		x 1110		6.1			
							Grades to SAA, tan, dry, sl. odor
10		x 1115		11.3			
				4.4			
15		x 1125					
				7.7			Grades to wet brn, dry, no odor
20		x 1135					Push to 25', set well
25							
30							
35							

Depth (duplicate)

Split Spoon C California Bulk

Clay Sand Gravel Claystone Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling Groundwater After Drilling _____ Date

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/17 Project #: _____ Project Name: 4060 CLR Ext Hole#: GP-15

CTL Representative DH Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count / PID	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes
0							GW Sandy clay, gravel, cobbles, dry, sl. odor
				2.4			Brown sandy clay, dry, no odor
5		×1140					Grades to tan sandy clay, clay, dry, no odor
				2.7			
10		×1145		2.5			Becomes moist, sl. odor
							Grades to sandy gravel, dry, no odor
				2.0			Grades to clay, moist, no odor
15		×1155					Grades to weathered bedrock, moist, sl. odor
				2.9			no sat.
20		×1200					Refusal to 21' set well
25							
30							
35							

Depth

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 7/19/13 Project #: _____ Project Name: 406N CLR Erie Hole#: GP-16

CTL Representative DN Hole Location: _____ Elevation: _____ Start: _____ Finish: _____

Drill Company _____ Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count (PID)	% Fines	USC Symbol	DESCRIPTIONS / NOTES: Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Tan. sand, gravel, cobbles, dry, no odor	0
				6.2			Grades to brown sandy clay, dry, no odor	
5		x1210						5
				4.7			Grades to tan clayey sand, dry, no odor	
							Grades to tan clay, stiff, dry, no odor	
10		x1215		3.0				10
				6.8			Grades to tan clayey sand, moist, no odor	
15		x1220					Grades to tan sandy clay, dry, no odor	15
				4.8			Grades to tan to red sand, gravel, pebbles, cobbles, dry, no odor (Wx bedrock)	
20		x1230					Push to 25' set well	20
25								25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling | Groundwater After Drilling _____ Date _____

Appendix B

Laboratory Analytical Results

1307328

GC/MS Volatiles:

The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met with the following exceptions:

1. Sample 1307328-35, provided for volatiles, had a pH > 2 at the time of analysis. All other samples had a pH < 2 at the time of analysis.

2. All internal standard recoveries were within acceptance criteria with the following exception:

Internal Standard	Sample	Direction
1,4-Dichlorobenzene-d4	1307328-9MS	Low

No further action was taken.

Oil and Grease:

The water samples were prepared and analyzed according to EPA Method 1664A procedures utilizing the current revision of SOP 671.

The soil samples were prepared and analyzed according to SW-846, 3rd Edition procedures based on Method SW-9071 and utilizing the current revision of SOP 640.

All acceptance criteria were met.

PCBs:

The extract was analyzed using GC/ECD (electron capture detectors) with an RTX-5 capillary column according to the current revision of SOP 409 based on SW-846 Method 8082. All positive results were then confirmed on an RTX-CLPesticidesII column. Unless interferences were present, the quantitation of each analyte is the higher of the concentrations obtained from each column that met initial and continuing calibration criteria. Note that analyst raw data annotation may provide further clarification.

All surrogate recoveries were within acceptable limits with the following exception:

Surrogate	Sample	Direction
Decachlorobiphenyl	39	Low

It is the practice of ALS to evaluate the recovery of both surrogates in samples and associated quality control samples, but to control on only one of the two surrogates for this test.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307328
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-9 (5')	1307328-1		SOIL	19-Jul-13	8:05
GP-10 (5')	1307328-2		SOIL	19-Jul-13	8:50
GP-11 (5')	1307328-3		SOIL	19-Jul-13	9:30
GP-12 (5')	1307328-4		SOIL	19-Jul-13	10:00
GP-13 (5')	1307328-5		SOIL	19-Jul-13	10:40
GP-14 (5')	1307328-6		SOIL	19-Jul-13	11:10
GP-15 (5')	1307328-7		SOIL	19-Jul-13	11:40
GP-16 (5')	1307328-8		SOIL	19-Jul-13	12:10
S-17	1307328-9		SOIL	19-Jul-13	14:10
S-18	1307328-10		SOIL	19-Jul-13	14:20
GP-9 (10')	1307328-11		SOIL	19-Jul-13	8:10
GP-9 (15')	1307328-12		SOIL	19-Jul-13	8:20
GP-9 (20')	1307328-13		SOIL	19-Jul-13	8:30
GP-10 (10')	1307328-14		SOIL	19-Jul-13	8:55
GP-10 (15')	1307328-15		SOIL	19-Jul-13	9:05
GP-10 (20')	1307328-16		SOIL	19-Jul-13	9:15
GP-11 (10')	1307328-17		SOIL	19-Jul-13	9:35
GP-11 (15')	1307328-18		SOIL	19-Jul-13	9:45
GP-11 (20')	1307328-19		SOIL	19-Jul-13	9:55
GP-12 (10')	1307328-20		SOIL	19-Jul-13	10:05
GP-12 (15')	1307328-21		SOIL	19-Jul-13	10:15
GP-12 (20')	1307328-22		SOIL	19-Jul-13	10:25
GP-13 (10')	1307328-23		SOIL	19-Jul-13	10:45
GP-13 (15')	1307328-24		SOIL	19-Jul-13	10:55
GP-13 (20')	1307328-25		SOIL	19-Jul-13	11:05
GP-14 (10')	1307328-26		SOIL	19-Jul-13	11:15
GP-14 (15')	1307328-27		SOIL	19-Jul-13	11:25
GP-14 (20')	1307328-28		SOIL	19-Jul-13	11:35
GP-15 (10')	1307328-29		SOIL	19-Jul-13	11:45
GP-15 (15')	1307328-30		SOIL	19-Jul-13	11:55

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307328
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-15 (20')	1307328-31		SOIL	19-Jul-13	12:00
GP-16 (10')	1307328-32		SOIL	19-Jul-13	12:15
GP-16 (15')	1307328-33		SOIL	19-Jul-13	12:20
GP-16 (20')	1307328-34		SOIL	19-Jul-13	12:30
GP-9	1307328-35		WATER	19-Jul-13	13:30
GP-11	1307328-36		WATER	19-Jul-13	14:00
GP-14	1307328-37		WATER	19-Jul-13	14:15
GP-15	1307328-38		WATER	19-Jul-13	14:25
BW-19	1307328-39		SOLID	19-Jul-13	17:30
BW-19	1307328-40		LEACHAT	19-Jul-13	17:30
Trip Blank	1307328-41		WATER	19-Jul-13	

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 1 of 4

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC 05859.001-205	SITE ID	–
		EDD FORMAT	–
		PURCHASE ORDER	–
COMPANY NAME	CTL Thompson	BILL TO COMPANY	SAA
SEND REPORT TO	Dana Harris	INVOICE ATTN TO	
ADDRESS	351 Linden St. #140	ADDRESS	
CITY / STATE / ZIP	Fort Collins, CO 80524	CITY / STATE / ZIP	
PHONE	970-206-9455	PHONE	
FAX		FAX	
E-MAIL	dharris@ctlthompson.com	E-MAIL	

DATE 7/19/13

TURNAROUND Standard/1 wk.

DISPOSAL By Lab or Return to Client

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Oil + Grease	BTEX 8260	9071
1	GP-9 (5')	S	7/19/13	0905	2			X	X	
2	GP-10 (5')	S	7/19/13	0930	2			X	X	
3	GP-11 (5')	S	7/19/13	0950	2			X	X	
4	GP-12 (5')	S	7/19/13	1000	2			X	X	
5	GP-13 (5')	S	7/19/13	1040	2			X	X	
6	GP-14 (5')	S	7/19/13	1110	2			X	X	
7	GP-15 (5')	S	7/19/13	1140	2			X	X	
8	GP-16 (5')	S	7/19/13	1210	2			X	X	
9	S-17	S	7/19/13	1410	2			X	X	
10	S-18	S	7/19/13	1420	2			X	X	

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- [X] LEVEL II (Standard QC)
- [ ] LEVEL III (Std QC + forms)
- [ ] LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 2 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
11	GP-9 (10')	S	7/19/13	0810	2			HOLD
12	GP-9 (15')	S	7/19/13	0820	2			HOLD
13	GP-9 (20')	S	7/19/13	0830	2			HOLD
14	GP-10 (10')	S	7/19/13	0855	2			HOLD
15	GP-10 (15')	S	7/19/13	0905	2			HOLD
16	GP-10 (20')	S	7/19/13	0915	2			HOLD
17	GP-11 (10')	S	7/19/13	0935	2			HOLD
18	GP-11 (15')	S	7/19/13	0945	2			HOLD
19	GP-11 (20')	S	7/19/13	0955	2			HOLD
20	GP-12 (10')	S	7/19/13	1005	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitt	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

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DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dave Harris
PROJECT No.	FCO5859.001-205	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	CTL Thompson	BILL TO COMPANY	
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS		ADDRESS	
CITY / STATE / ZIP		CITY / STATE / ZIP	
PHONE		PHONE	
FAX		FAX	
E-MAIL		E-MAIL	

DATE 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date (or Time)	Sample Time (or Date)	# Bottles	Pres.	QC	
21	GP-12 (15')	S	1015	7/19/13	2			HOLD
22	GP-12 (20')	S	1025	7/19/13	2			HOLD
23	GP-13 (10')	S	1045	7/19/13	2			HOLD
24	GP-13 (15')	S	1055	7/19/13	2			HOLD
25	GP-13 (20')	S	1105	7/19/13	2			HOLD
26	GP-14 (10')	S	1115	7/19/13	2			HOLD
27	GP-14 (15')	S	1125	7/19/13	2			HOLD
28	GP-14 (20')	S	1135	7/19/13	2			HOLD
29	GP-15 (10')	S	1145	7/19/13	2			HOLD
30	GP-15 (15')	S	1155	7/19/13	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dave Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 4 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4068 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE: 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date/Time	Sample Time/Date	# Bottles	Pres.	QC	907.1/1664	8260	O&G	BTEX	PCBs	TCLP Benzene	
(31)	GP-15 (20')	S	1200	7/19/13	2			HOLD						
(32)	GP-16 (10')	S	1215	7/19/13	2			HOLD						
(33)	GP-16 (15')	S	1220	7/19/13	2			HOLD						
(34)	GP-16 (20')	S	1270	7/19/13	2			HOLD						
(35)	GP-9	W	1330	7/19/13	4					X	X			
(36)	GP-11	W	1400	7/19/13	4					X	X			
(37)	GP-14	W	1415	7/19/13	4					X	X			
(38)	GP-15	W	1425	7/19/13	4					X	X			
(39)	BW-19	NS	1730	7/19/13	2							X	X	(40)

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: (41) TB

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Thompson Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO *
7. Were airbills / shipping documents present and/or removable?	(DROP OFF)	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	(NO) *
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1	2	3
Temperature (°C):	4.8	1.2	3.0
No. of custody seals on cooler:	0	→	
DOT Survey/ Acceptance Information — External µR/hr reading:	N/A	→	
Background µR/hr reading:	10		

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / (NA)** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*please see page 2

If applicable, was the client contacted? **YES / NO / (NA)** Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 7/20/13

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

Additional Information:

(*6) Trip Blank not listed on COC. Arrived in cooler #1 added to W.O. as 1307328-41 (2 VIALS)

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? **YES** (See Table below) / **NO**

pH Excursion:

ALS Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1307328-35-4	GP-9	7	<2	H_2SO_4	1.0	50048	O&G	LAS 7/20/13@ 0940
36-4	GP-11	4	↓	↓	↓	↓	↓	↓
37-4	GP-14	3	↓	↓	↓	↓	↓	↓
38-4	GP-15	4	↓	↓	↓	↓	↓	↓

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: 7/20/13

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-9 (5')	**Lab ID:**	1307328-1
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 08:05	**Percent Moisture:**	7.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.4	UG/KG	1	7/23/2013 18:46
TOLUENE	ND		5.4	UG/KG	1	7/23/2013 18:46
ETHYLBENZENE	ND		5.4	UG/KG	1	7/23/2013 18:46
M+P-XYLENE	ND		5.4	UG/KG	1	7/23/2013 18:46
O-XYLENE	ND		5.4	UG/KG	1	7/23/2013 18:46
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/23/2013 18:46
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	7/23/2013 18:46
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/23/2013 18:46
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-10 (5')	**Lab ID:**	1307328-2
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 08:50	**Percent Moisture:**	7.1

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5	UG/KG	1	7/23/2013 19:09
TOLUENE	ND		5	UG/KG	1	7/23/2013 19:09
ETHYLBENZENE	ND		5	UG/KG	1	7/23/2013 19:09
M+P-XYLENE	ND		5	UG/KG	1	7/23/2013 19:09
O-XYLENE	ND		5	UG/KG	1	7/23/2013 19:09
Surr: DIBROMOFLUOROMETHANE	*97*		*61-134*	*%REC*	1	7/23/2013 19:09
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/23/2013 19:09
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 19:09
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-11 (5')	**Lab ID:**	1307328-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 09:30	**Percent Moisture:**	7.3

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/23/2013 19:33
TOLUENE	ND		5.2	UG/KG	1	7/23/2013 19:33
ETHYLBENZENE	ND		5.2	UG/KG	1	7/23/2013 19:33
M+P-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:33
O-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:33
Surr: DIBROMOFLUOROMETHANE	*98*		*61-134*	*%REC*	1	7/23/2013 19:33
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 19:33
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 19:33
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-12 (5')	**Lab ID:**	1307328-4
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 10:00	**Percent Moisture:**	8.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/23/2013 19:56
TOLUENE	ND		5.2	UG/KG	1	7/23/2013 19:56
ETHYLBENZENE	ND		5.2	UG/KG	1	7/23/2013 19:56
M+P-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:56
O-XYLENE	ND		5.2	UG/KG	1	7/23/2013 19:56
Surr: DIBROMOFLUOROMETHANE	*99*		*61-134*	*%REC*	1	7/23/2013 19:56
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 19:56
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 19:56
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-13 (5')	**Lab ID:**	1307328-5
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 10:40	**Percent Moisture:**	7.7

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		4.8	UG/KG	1	7/23/2013 20:20
TOLUENE	ND		4.8	UG/KG	1	7/23/2013 20:20
ETHYLBENZENE	ND		4.8	UG/KG	1	7/23/2013 20:20
M+P-XYLENE	ND		4.8	UG/KG	1	7/23/2013 20:20
O-XYLENE	ND		4.8	UG/KG	1	7/23/2013 20:20
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/23/2013 20:20
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 20:20
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/23/2013 20:20
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-14 (5')	**Lab ID:**	1307328-6
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 11:10	**Percent Moisture:**	9.1

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/23/2013**	PrepBy: **SDW**
BENZENE	ND		5.4	UG/KG	1	7/23/2013 20:44
TOLUENE	ND		5.4	UG/KG	1	7/23/2013 20:44
ETHYLBENZENE	ND		5.4	UG/KG	1	7/23/2013 20:44
M+P-XYLENE	ND		5.4	UG/KG	1	7/23/2013 20:44
O-XYLENE	ND		5.4	UG/KG	1	7/23/2013 20:44
Surr: DIBROMOFLUOROMETHANE	*98*		*61-134*	*%REC*	1	7/23/2013 20:44
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/23/2013 20:44
Surr: 4-BROMOFLUOROBENZENE	*95*		*52-151*	*%REC*	1	7/23/2013 20:44
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-15 (5')	**Lab ID:**	1307328-7
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 11:40	**Percent Moisture:**	7.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/24/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/24/2013 14:46
TOLUENE	ND		5.2	UG/KG	1	7/24/2013 14:46
ETHYLBENZENE	ND		5.2	UG/KG	1	7/24/2013 14:46
M+P-XYLENE	ND		5.2	UG/KG	1	7/24/2013 14:46
O-XYLENE	ND		5.2	UG/KG	1	7/24/2013 14:46
Surr: DIBROMOFLUOROMETHANE	*99*		*61-134*	*%REC*	1	7/24/2013 14:46
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/24/2013 14:46
Surr: 4-BROMOFLUOROBENZENE	*96*		*52-151*	*%REC*	1	7/24/2013 14:46
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	ND		110	MG/KG	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-16 (5')	**Lab ID:**	1307328-8
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:10	**Percent Moisture:**	8.5

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/24/2013**	PrepBy: **SDW**
BENZENE	ND		5.4	UG/KG	1	7/24/2013 15:09
TOLUENE	ND		5.4	UG/KG	1	7/24/2013 15:09
ETHYLBENZENE	ND		5.4	UG/KG	1	7/24/2013 15:09
M+P-XYLENE	ND		5.4	UG/KG	1	7/24/2013 15:09
O-XYLENE	ND		5.4	UG/KG	1	7/24/2013 15:09
Surr: DIBROMOFLUOROMETHANE	*99*		*61-134*	*%REC*	1	7/24/2013 15:09
Surr: TOLUENE-D8	*98*		*57-135*	*%REC*	1	7/24/2013 15:09
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/24/2013 15:09
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	**380**		**110**	**MG/KG**	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	S-17	**Lab ID:**	1307328-9
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 14:10	**Percent Moisture:**	2.8

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/25/2013**	PrepBy: **SDW**
BENZENE	ND		5.1	UG/KG	1	7/25/2013 13:29
TOLUENE	ND		5.1	UG/KG	1	7/25/2013 13:29
ETHYLBENZENE	ND		5.1	UG/KG	1	7/25/2013 13:29
M+P-XYLENE	ND		5.1	UG/KG	1	7/25/2013 13:29
O-XYLENE	ND		5.1	UG/KG	1	7/25/2013 13:29
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/25/2013 13:29
Surr: TOLUENE-D8	*97*		*57-135*	*%REC*	1	7/25/2013 13:29
Surr: 4-BROMOFLUOROBENZENE	*94*		*52-151*	*%REC*	1	7/25/2013 13:29
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	**5800**		**100**	**MG/KG**	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	S-18	**Lab ID:**	1307328-10
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 14:20	**Percent Moisture:**	0.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/24/2013**	PrepBy: **SDW**
BENZENE	ND		4.8	UG/KG	1	7/24/2013 15:56
TOLUENE	ND		4.8	UG/KG	1	7/24/2013 15:56
ETHYLBENZENE	ND		4.8	UG/KG	1	7/24/2013 15:56
M+P-XYLENE	ND		4.8	UG/KG	1	7/24/2013 15:56
O-XYLENE	ND		4.8	UG/KG	1	7/24/2013 15:56
Surr: DIBROMOFLUOROMETHANE	*102*		*61-134*	*%REC*	1	7/24/2013 15:56
Surr: TOLUENE-D8	*104*		*57-135*	*%REC*	1	7/24/2013 15:56
Surr: 4-BROMOFLUOROBENZENE	*89*		*52-151*	*%REC*	1	7/24/2013 15:56
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/25/2013**	PrepBy: **TLB**
OIL AND GREASE	**1500**		**100**	**MG/KG**	1	7/26/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-9	**Lab ID:**	1307328-35
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 13:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 16:21
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 16:21
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 16:21
O-XYLENE	ND		1	UG/L	1	7/21/2013 16:21
TOLUENE	**7.6**		**1**	**UG/L**	1	7/21/2013 16:21
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	7/21/2013 16:21
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	7/21/2013 16:21
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	7/21/2013 16:21
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.7	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-11	**Lab ID:**	1307328-36
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 14:00	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 17:08
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 17:08
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 17:08
O-XYLENE	ND		1	UG/L	1	7/21/2013 17:08
TOLUENE	**2.6**		**1**	**UG/L**	1	7/21/2013 17:08
Surr: 4-BROMOFLUOROBENZENE	*96*		*85-115*	*%REC*	1	7/21/2013 17:08
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	7/21/2013 17:08
Surr: TOLUENE-D8	*102*		*85-115*	*%REC*	1	7/21/2013 17:08
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.3	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-14	**Lab ID:**	1307328-37
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 14:15	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 17:55
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 17:55
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 17:55
O-XYLENE	ND		1	UG/L	1	7/21/2013 17:55
TOLUENE	**1.3**		**1**	**UG/L**	1	7/21/2013 17:55
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	7/21/2013 17:55
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	7/21/2013 17:55
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	7/21/2013 17:55
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.6	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	GP-15	**Lab ID:**	1307328-38
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013 14:25	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 18:42
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 18:42
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 18:42
O-XYLENE	ND		1	UG/L	1	7/21/2013 18:42
TOLUENE	**0.56**	J	**1**	**UG/L**	1	7/21/2013 18:42
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	7/21/2013 18:42
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	7/21/2013 18:42
Surr: TOLUENE-D8	*103*		*85-115*	*%REC*	1	7/21/2013 18:42
HEXANE EXTRACTABLE MATERIAL--GRAVIMETRIC			**EPA1664**		Prep Date: **7/25/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		5.6	MG/L	1	7/25/2013

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	BW-19	**Lab ID:**	1307328-39
Legal Location:		**Matrix:**	SOLID
Collection Date:	7/19/2013 17:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep Date: **7/25/2013**	PrepBy: **TLB**
AROCLOR-1016	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1221	ND		67	UG/KG	1	7/26/2013 18:44
AROCLOR-1232	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1242	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1248	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1254	ND		33	UG/KG	1	7/26/2013 18:44
AROCLOR-1260	ND		33	UG/KG	1	7/26/2013 18:44
Surr: TETRACHLORO-M-XYLENE	*77*		*61-120*	*%REC*	1	7/26/2013 18:44
Surr: DECACHLOROBIPHENYL	*30*	*	*56-130*	*%REC*	1	7/26/2013 18:44

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	BW-19	**Lab ID:**	1307328-40
Legal Location:		**Matrix:**	LEACHATE
Collection Date:	7/19/2013 17:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/26/2013**	PrepBy: **SDW**
BENZENE	ND		10	UG/L	10	7/26/2013 19:05
Surr: DIBROMOFLUOROMETHANE	*101*		*84-118*	*%REC*	10	7/26/2013 19:05
Surr: TOLUENE-D8	*104*		*85-115*	*%REC*	10	7/26/2013 19:05
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	10	7/26/2013 19:05

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	Trip Blank	**Lab ID:**	1307328-41
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260_25**		Prep Date: **7/21/2013**	PrepBy: **SDW**
BENZENE	ND		1	UG/L	1	7/21/2013 15:34
ETHYLBENZENE	ND		1	UG/L	1	7/21/2013 15:34
M+P-XYLENE	ND		1	UG/L	1	7/21/2013 15:34
O-XYLENE	ND		1	UG/L	1	7/21/2013 15:34
TOLUENE	ND		1	UG/L	1	7/21/2013 15:34
Surr: 4-BROMOFLUOROBENZENE	*97*		*85-115*	*%REC*	1	7/21/2013 15:34
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	7/21/2013 15:34
Surr: TOLUENE-D8	*103*		*85-115*	*%REC*	1	7/21/2013 15:34

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	Trip Blank	**Lab ID:**	1307328-41
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

Diesel Range Organics:

Client:	CTL Thompson	**Date:**	*29-Jul-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307328
Sample ID:	Trip Blank	**Lab ID:**	1307328-41
Legal Location:		**Matrix:**	WATER
Collection Date:	7/19/2013	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **EX130725-3-1** Instrument ID **Balance** Method: **EPA1664**

LCS Sample ID: **EX130725-3** Units: **MG/L** Analysis Date: **7/25/2013**

Client ID: Run ID: **EX130725-3A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	39.9	5	39.9		100	78-114			18	

LCSD Sample ID: **EX130725-3** Units: **MG/L** Analysis Date: **7/25/2013**

Client ID: Run ID: **EX130725-3A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	40.5	5	39.9		102	78-114	39.9	1	18	

MB Sample ID: **EX130725-3** Units: **MG/L** Analysis Date: **7/25/2013**

Client ID: Run ID: **EX130725-3A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	ND	5								

The following samples were analyzed in this batch: 1307328-35 1307328-36 1307328-37 1307328-38

QC BATCH REPORT

Batch ID: **EX130725-8-1** Instrument ID **Balance** Method: **SW9071**

LCS Sample ID: **EX130725-8** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2050	100	2060		100	80-120			20	

LCSD Sample ID: **EX130725-8** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2040	100	2060		99	80-120	2050	1	20	

MB Sample ID: **EX130725-8** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	ND	100								

MS Sample ID: **1307328-3** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: **GP-11 (5')** Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2200	107	2210	110	97	80-120			20	

MSD Sample ID: **1307328-3** Units: **MG/KG** Analysis Date: **7/26/2013**
Client ID: **GP-11 (5')** Run ID: **EX130725-8A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2230	107	2220	110	98	80-120	2200	1	20	

The following samples were analyzed in this batch:

1307328-1	1307328-2	1307328-3
1307328-4	1307328-5	1307328-6
1307328-7	1307328-8	1307328-9
1307328-10		

QC BATCH REPORT

Batch ID: **EX130725-7-1** Instrument ID **Pest-1** Method: **SW8082**

LCS Sample ID: **EX130725-7** Units: **UG/KG** Analysis Date: **7/26/2013 17:36**

Client ID: Run ID: **PT130726-11** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	130	33.3	133		97	64-126			50	
AROCLOR-1260	141	33.3	133		106	60-130			50	
Surr: TETRACHLORO-M-XYLEN	15.5		16.7		93	61-120				
Surr: DECACHLOROBIPHENYL	15.1		16.7		91	56-130				

LCSD Sample ID: **EX130725-7** Units: **UG/KG** Analysis Date: **7/26/2013 17:59**

Client ID: Run ID: **PT130726-11** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	128	33.3	133		96	64-126	130	1	50	
AROCLOR-1260	141	33.3	133		105	60-130	141	1	50	
Surr: TETRACHLORO-M-XYLEN	15.3		16.7		92	61-120		1		
Surr: DECACHLOROBIPHENYL	15.3		16.7		92	56-130		1		

MB Sample ID: **EX130725-7** Units: **UG/KG** Analysis Date: **7/26/2013 16:28**

Client ID: Run ID: **PT130726-11** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	ND	33								
AROCLOR-1221	ND	67								
AROCLOR-1232	ND	33								
AROCLOR-1242	ND	33								
AROCLOR-1248	ND	33								
AROCLOR-1254	ND	33								
AROCLOR-1260	ND	33								
Surr: TETRACHLORO-M-XYLEN	15.3		16.7		92	61-120				
Surr: DECACHLOROBIPHENYL	14.9		16.7		89	56-130				

The following samples were analyzed in this batch: 1307328-39

QC BATCH REPORT

Batch ID: **VL130721-4-1** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL130721-4** Units: **%REC** Analysis Date: **7/21/2013 14:24**
Client ID: Run ID: **VL130721-4A** Prep Date: **7/21/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZE	25.1		25		100	85-115				
Surr: DIBROMOFLUOROMETHA	24.8		25		99	84-118				
Surr: TOLUENE-D8	25.5		25		102	85-115				
BENZENE	9.55	1	10		96	83-117			20	
ETHYLBENZENE	9.8	1	10		98	81-113			20	
M+P-XYLENE	19.9	1	20		100	82-115			20	
O-XYLENE	10	1	10		100	81-115			20	
TOLUENE	9.56	1	10		96	82-113			20	

LCSD Sample ID: **VL130721-4** Units: **%REC** Analysis Date: **7/21/2013 14:47**
Client ID: Run ID: **VL130721-4A** Prep Date: **7/21/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZE	24.9		25		100	85-115		1		
Surr: DIBROMOFLUOROMETHA	25.1		25		100	84-118		1		
Surr: TOLUENE-D8	25.4		25		102	85-115		0		
BENZENE	9.65	1	10		96	83-117	9.55	1	20	
ETHYLBENZENE	9.62	1	10		96	81-113	9.8	2	20	
M+P-XYLENE	19.6	1	20		98	82-115	19.9	2	20	
O-XYLENE	9.95	1	10		99	81-115	10	1	20	
TOLUENE	9.38	1	10		94	82-113	9.56	2	20	

MB Sample ID: **VL130721-4** Units: **%REC** Analysis Date: **7/21/2013 15:10**
Client ID: Run ID: **VL130721-4A** Prep Date: **7/21/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZE	24.5		25		98	85-115				
Surr: DIBROMOFLUOROMETHA	24.9		25		99	84-118				
Surr: TOLUENE-D8	25.6		25		102	85-115				
BENZENE	ND	1								
ETHYLBENZENE	ND	1								
M+P-XYLENE	ND	1								
O-XYLENE	ND	1								
TOLUENE	ND	1								

The following samples were analyzed in this batch: 1307328-35 1307328-36 1307328-37 1307328-38 1307328-41

QC BATCH REPORT

Batch ID: **VL130723-2-4** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130723-2** Units: **UG/KG** Analysis Date: **7/23/2013 11:34**
Client ID: Run ID: **VL130723-2A** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	40.1	5	40		100	73-126			30	
TOLUENE	37.9	5	40		95	71-127			30	
ETHYLBENZENE	37.2	5	40		93	74-127			30	
M+P-XYLENE	75.4	5	80		94	79-126			30	
O-XYLENE	37.6	5	40		94	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.2		50		100	61-134				
Surr: TOLUENE-D8	48.5		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	50.6		50		101	52-151				

LCSD Sample ID: **VL130723-2** Units: **UG/KG** Analysis Date: **7/23/2013 11:56**
Client ID: Run ID: **VL130723-2A** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	37.3	5	40		93	73-126	40.1	7	30	
TOLUENE	34.8	5	40		87	71-127	37.9	9	30	
ETHYLBENZENE	34.2	5	40		85	74-127	37.2	8	30	
M+P-XYLENE	69.5	5	80		87	79-126	75.4	8	30	
O-XYLENE	34.8	5	40		87	77-125	37.6	8	30	
Surr: DIBROMOFLUOROMETHA	50.6		50		101	61-134		1		
Surr: TOLUENE-D8	48.8		50		98	57-135		1		
Surr: 4-BROMOFLUOROBENZE	50.8		50		102	52-151		0		

MB Sample ID: **VL130723-2** Units: **UG/KG** Analysis Date: **7/23/2013 12:17**
Client ID: Run ID: **VL130723-2A** Prep Date: **7/23/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	49.2		50		98	61-134				
Surr: TOLUENE-D8	48.5		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	49.3		50		99	52-151				

The following samples were analyzed in this batch:

1307328-1	1307328-2	1307328-3
1307328-4	1307328-5	1307328-6

Batch ID: **VL130724-2-2** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130724-2** Units: **UG/KG** Analysis Date: **7/24/2013 13:39**

Client ID: Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	40.9	5	40		102	73-126			30	
TOLUENE	39	5	40		97	71-127			30	
ETHYLBENZENE	38.3	5	40		96	74-127			30	
M+P-XYLENE	77.2	5	80		96	79-126			30	
O-XYLENE	38.6	5	40		97	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.2		50		100	61-134				
Surr: TOLUENE-D8	48.8		50		98	57-135				
Surr: 4-BROMOFLUOROBENZE	51.1		50		102	52-151				

LCSD Sample ID: **VL130724-2** Units: **UG/KG** Analysis Date: **7/24/2013 14:01**

Client ID: Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.4	5	40		103	73-126	40.9	1	30	
TOLUENE	38.4	5	40		96	71-127	39	1	30	
ETHYLBENZENE	37.6	5	40		94	74-127	38.3	2	30	
M+P-XYLENE	76	5	80		95	79-126	77.2	2	30	
O-XYLENE	38.3	5	40		96	77-125	38.6	1	30	
Surr: DIBROMOFLUOROMETHA	51.2		50		102	61-134		2		
Surr: TOLUENE-D8	49.3		50		99	57-135		1		
Surr: 4-BROMOFLUOROBENZE	50.5		50		101	52-151		1		

MB Sample ID: **VL130724-2** Units: **UG/KG** Analysis Date: **7/24/2013 14:23**

Client ID: Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	49.5		50		99	61-134				
Surr: TOLUENE-D8	48.3		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	49.2		50		98	52-151				

QC BATCH REPORT

Batch ID: **VL130724-2-2** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307328-10** Units: **UG/KG** Analysis Date: **7/24/2013 16:20**

Client ID: **S-18** Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	22.6	4.66	37.3	4.8	61	73-126			30	*
TOLUENE	17.7	4.66	37.3	4.8	47	71-127			30	*
ETHYLBENZENE	13.1	4.66	37.3	4.8	35	74-127			30	*
M+P-XYLENE	25.5	4.66	74.6	4.8	34	79-126			30	*
O-XYLENE	13	4.66	37.3	4.8	35	77-125			30	*
Surr: DIBROMOFLUOROMETHA	48.1		46.6		103	61-134				
Surr: TOLUENE-D8	45.7		46.6		98	57-135				
Surr: 4-BROMOFLUOROBENZE	46.1		46.6		99	52-151				

MSD Sample ID: **1307328-10** Units: **UG/KG** Analysis Date: **7/24/2013 16:42**

Client ID: **S-18** Run ID: **VL130724-2A** Prep Date: **7/24/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	24.4	4.88	39	4.8	62	73-126	22.6	8	30	*
TOLUENE	19.1	4.88	39	4.8	49	71-127	17.7	8	30	*
ETHYLBENZENE	14	4.88	39	4.8	36	74-127	13.1	7	30	*
M+P-XYLENE	27.8	4.88	78.1	4.8	36	79-126	25.5	8	30	*
O-XYLENE	14	4.88	39	4.8	36	77-125	13	7	30	*
Surr: DIBROMOFLUOROMETHA	50.2		48.8		103	61-134		4		
Surr: TOLUENE-D8	47.6		48.8		98	57-135		4		
Surr: 4-BROMOFLUOROBENZE	47.8		48.8		98	52-151		4		

The following samples were analyzed in this batch: 1307328-7 1307328-8 1307328-10

Batch ID: **VL130725-2-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130725-2** Units: **UG/KG** Analysis Date: **7/25/2013 12:20**

Client ID: Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.2	5	40		103	73-126			30	
TOLUENE	39.1	5	40		98	71-127			30	
ETHYLBENZENE	38.4	5	40		96	74-127			30	
M+P-XYLENE	77.6	5	80		97	79-126			30	
O-XYLENE	39	5	40		98	77-125			30	
Surr: DIBROMOFLUOROMETHA	50.1		50		100	61-134				
Surr: TOLUENE-D8	48.6		50		97	57-135				
Surr: 4-BROMOFLUOROBENZE	50.5		50		101	52-151				

LCSD Sample ID: **VL130725-2** Units: **UG/KG** Analysis Date: **7/25/2013 12:44**

Client ID: Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	40.1	5	40		100	73-126	41.2	3	30	
TOLUENE	37.9	5	40		95	71-127	39.1	3	30	
ETHYLBENZENE	37.1	5	40		93	74-127	38.4	4	30	
M+P-XYLENE	75.2	5	80		94	79-126	77.6	3	30	
O-XYLENE	38.1	5	40		95	77-125	39	2	30	
Surr: DIBROMOFLUOROMETHA	50.7		50		101	61-134		1		
Surr: TOLUENE-D8	48.1		50		96	57-135		1		
Surr: 4-BROMOFLUOROBENZE	50.1		50		100	52-151		1		

MB Sample ID: **VL130725-2** Units: **UG/KG** Analysis Date: **7/25/2013 13:05**

Client ID: Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	49.5		50		99	61-134				
Surr: TOLUENE-D8	48		50		96	57-135				
Surr: 4-BROMOFLUOROBENZE	48.9		50		98	52-151				

QC BATCH REPORT

Batch ID: **VL130725-2-1** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307328-9** Units: **UG/KG** Analysis Date: **7/25/2013 13:51**

Client ID: **S-17** Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	35.2	5.04	40.4	5.1	87	73-126			30	
TOLUENE	34	5.04	40.4	5.1	84	71-127			30	
ETHYLBENZENE	25.5	5.04	40.4	5.1	63	74-127			30	*
M+P-XYLENE	50.7	5.04	80.7	5.1	63	79-126			30	*
O-XYLENE	24.2	5.04	40.4	5.1	60	77-125			30	*
Surr: DIBROMOFLUOROMETHA	53.9		50.4		107	61-134				
Surr: TOLUENE-D8	53.9		50.4		107	57-135				
Surr: 4-BROMOFLUOROBENZE	41.8		50.4		83	52-151				

MSD Sample ID: **1307328-9** Units: **UG/KG** Analysis Date: **7/25/2013 14:15**

Client ID: **S-17** Run ID: **VL130725-2A** Prep Date: **7/25/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	24.2	5.02	40.2	5.1	60	73-126	35.2	37	30	*+
TOLUENE	18	5.02	40.2	5.1	45	71-127	34	61	30	*+
ETHYLBENZENE	12.2	5.02	40.2	5.1	30	74-127	25.5	71	30	*+
M+P-XYLENE	23.4	5.02	80.4	5.1	29	79-126	50.7	74	30	*+
O-XYLENE	11.5	5.02	40.2	5.1	29	77-125	24.2	71	30	*+
Surr: DIBROMOFLUOROMETHA	53.7		50.2		107	61-134		0		
Surr: TOLUENE-D8	50.4		50.2		100	57-135		7		
Surr: 4-BROMOFLUOROBENZE	47.9		50.2		95	52-151		14		

The following samples were analyzed in this batch: 1307328-9

Client: CTL Thompson
Work Order: 1307328
Project: FC05859.001-205 4060 CLR Erie

QC BATCH REPORT

Batch ID: **VL130726-4-3** Instrument ID **HPV1** Method: **SW8260_25**

LCS Sample ID: **VL130726-4** Units: **UG/L** Analysis Date: **7/26/2013 17:30**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	9.72	1	10		97	83-117			20	
Surr: DIBROMOFLUOROMETHA	25.8		25		103	84-118				
Surr: TOLUENE-D8	25.2		25		101	85-115				
Surr: 4-BROMOFLUOROBENZE	24.4		25		98	85-115				

LCSD Sample ID: **VL130726-4** Units: **UG/L** Analysis Date: **7/26/2013 17:53**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	9.33	1	10		93	83-117	9.72	4	20	
Surr: DIBROMOFLUOROMETHA	25.9		25		104	84-118		0		
Surr: TOLUENE-D8	25.8		25		103	85-115		3		
Surr: 4-BROMOFLUOROBENZE	25		25		100	85-115		3		

MB Sample ID: **EX130725-4** Units: **UG/L** Analysis Date: **7/26/2013 18:41**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	10								
Surr: DIBROMOFLUOROMETHA	256		250		102	84-118				
Surr: TOLUENE-D8	258		250		103	85-115				
Surr: 4-BROMOFLUOROBENZE	251		250		100	85-115				

MB Sample ID: **VL130726-4** Units: **UG/L** Analysis Date: **7/26/2013 18:17**
Client ID: Run ID: **VL130726-4A** Prep Date: **7/26/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	1								
Surr: DIBROMOFLUOROMETHA	25.8		25		103	84-118				
Surr: TOLUENE-D8	25.9		25		104	85-115				
Surr: 4-BROMOFLUOROBENZE	24.6		25		99	85-115				

The following samples were analyzed in this batch: 1307328-40

1307521

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

Oil and Grease:
The samples were prepared and analyzed according to SW-846, 3rd Edition procedures based on Method SW-9071 and utilizing the current revision of SOP 640.

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1307521
Client Name: CTL Thompson
Client Project Name: 4060 CLR Erie
Client Project Number: FC05859.001-205
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
GP-16 (10')	1307521-1		SOIL	19-Jul-13	12:15
GP-16 (15')	1307521-2		SOIL	19-Jul-13	12:20
GP-16 (20')	1307521-3		SOIL	19-Jul-13	12:30

1307521 7/13/13

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 1 of 4

DISPOSAL By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC 05859.001-205	SITE ID	–
		EDD FORMAT	–
		PURCHASE ORDER	–
COMPANY NAME	CTL Thompson	BILL TO COMPANY	SAA
SEND REPORT TO	Dana Harris	INVOICE ATTN TO	
ADDRESS	351 Linden St. #140	ADDRESS	
CITY / STATE / ZIP	Fort Collins, CO 80524	CITY / STATE / ZIP	
PHONE	970-206-9455	PHONE	
FAX		FAX	
E-MAIL	dharris@ctlthompson.com	E-MAIL	

DATE 7/19/13

TURNAROUND Standard/1 wk.

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Oil + Grease 9071	BTEX 8260
1	GP-9 (5')	S	7/19/13	0905	2			X	X
2	GP-10 (5')	S	7/19/13	0950	2			X	X
3	GP-11 (5')	S	7/19/13	0950	2			X	X
4	GP-12 (5')	S	7/19/13	1000	2			X	X
5	GP-13 (5')	S	7/19/13	1040	2			X	X
6	GP-14 (5')	S	7/19/13	1110	2			X	X
7	GP-15 (5')	S	7/19/13	1140	2			X	X
8	GP-16 (5')	S	7/19/13	1210	2			X	X
9	S-17	S	7/19/13	1410	2			X	X
10	S-18	S	7/19/13	1420	2			X	X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- [X] LEVEL II (Standard QC)
- [ ] LEVEL III (Std QC + forms)
- [ ] LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

3 of 10

1307521 7/20/17

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
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Chain-of-Custody

Form 202r8

WORKORDER # 1307328

PAGE 2 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4060 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	CTL Thompson	BILL TO COMPANY	
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS		ADDRESS	
CITY / STATE / ZIP		CITY / STATE / ZIP	
PHONE		PHONE	
FAX		FAX	
E-MAIL		E-MAIL	

DATE: 7/19/17

TURNAROUND:

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	
11	GP-9 (10')	S	7/19/17	0810	2			HOLD
12	GP-9 (15')	S	7/19/17	0820	2			HOLD
13	GP-9 (20')	S	7/19/17	0830	2			HOLD
14	GP-10 (10')	S	7/19/17	0855	2			HOLD
15	GP-10 (15')	S	7/19/17	0905	2			HOLD
16	GP-10 (20')	S	7/19/17	0915	2			HOLD
17	GP-11 (10')	S	7/19/17	0935	2			HOLD
18	GP-11 (15')	S	7/19/17	0945	2			HOLD
19	GP-11 (20')	S	7/19/17	0955	2			HOLD
20	GP-12 (10')	S	7/19/17	1005	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)

- LEVEL II (Standard QC)
- LEVEL III (Std QC + forms)
- LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/17	0935
RECEIVED BY		LaurenSchmitt	7/20/17	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1307521 7/24/13

ALS Laboratory Group

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Chain-of-Custody

Form 202r8

PROJECT NAME	4060 CLR Esse	SAMPLER	Dave Harris	DATE	7/19/13
PROJECT No.	FCO5858.001-205	SITE ID		TURNAROUND	
		EDD FORMAT			
COMPANY NAME	CTL Thompson	PURCHASE ORDER			
SEND REPORT TO		BILL TO COMPANY			
ADDRESS		INVOICE ATTN TO			
CITY / STATE / ZIP		ADDRESS			
PHONE		CITY / STATE / ZIP			
FAX		PHONE			
E-MAIL		FAX			
		E-MAIL			

WORKORDER: 1307328
PAGE: 3 of 4
DISPOSAL: By Lab or Return to Client

Lab ID	Field ID	Matrix	Sample Date/Time	Sample Time Date	# Bottles	Pres.	QC	
21	GP-12 (15')	S	1015	7/19/13	2			HOLD
22	GP-12 (20')	S	1025	7/19/13	2			HOLD
23	GP-13 (10')	S	1045	7/19/13	2			HOLD
24	GP-13 (15')	S	1055	7/19/13	2			HOLD
25	GP-13 (20')	S	1105	7/19/13	2			HOLD
26	GP-14 (10')	S	1115	7/19/13	2			HOLD
27	GP-14 (15')	S	1125	7/19/13	2			HOLD
28	GP-14 (20')	S	1135	7/19/13	2			HOLD
29	GP-15 (10')	S	1145	7/19/13	2			HOLD
30	GP-15 (15')	S	1155	7/19/13	2			HOLD

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dave Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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130752 7/30/13

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
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Chain-of-Custody

Form 202r8

WORKORDER: 1307328

PAGE: 4 of 4

DISPOSAL: By Lab or Return to Client

PROJECT NAME	4068 CLR Erie	SAMPLER	Dana Harris
PROJECT No.	FC05859.001-205	SITE ID	
		EDD FORMAT	
COMPANY NAME	CTL Thompson	PURCHASE ORDER	
SEND REPORT TO		BILL TO COMPANY	
ADDRESS		INVOICE ATTN TO	
CITY / STATE / ZIP		ADDRESS	
PHONE		CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL		FAX	
		E-MAIL	

DATE: 7/19/13

TURNAROUND

Lab ID	Field ID	Matrix	Sample Date/Time	Sample Time	# Bottles	Pres.	QC	907.1/6014 Oil + Grease	8260 BTEX	PCBs	TCLP Benzene	Oil & Grease	BTEX
31	GP-15 (20')	S	1200	7/19/13	2			HOLD					
32	GP-16 (10')	S	1215	7/19/13	2			HOLD				X	X
33	GP-16 (15')	S	1220	7/19/13	2			HOLD				X	X
34	GP-16 (20')	S	1270	7/19/13	2			HOLD				X	X
35	GP-9	W	1330	7/19/13	4			X	X				
36	GP-11	W	1400	7/19/13	4			X	X				
37	GP-14	W	1415	7/19/13	4			X	X				
38	GP-15	W	1425	7/19/13	4			X	X				
39	BW-19	NS	1730	7/19/13	2					X	X		
											(40)		

Need for Dana Harris email 7/31/13

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: (41) TB

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Dana Harris	7/20/13	0935
RECEIVED BY		Lauren Schmitz	7/20/13	0940
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1307521 7/31/13

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Thompson Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
(6.) Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO *
7. Were airbills / shipping documents present and/or removable?	(DROP OFF)	YES	NO
(8.) Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	YES	(NO) *
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1	2	3					
Temperature (°C):	4.8	1.2	3.0					
No. of custody seals on cooler:	0 →							
DOT Survey/ Acceptance Information: External µR/hr reading:	N/A →							
Background µR/hr reading:	10							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / (NA) (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*please see page 2

If applicable, was the client contacted? YES / NO / (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 7/20/13

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

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1307328 7/23/13

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CTL Workorder No: 1307328

Project Manager: ARW Initials: LAS Date: 7/20/13

Additional Information:

(*6) Trip Blank not listed on COC. Arrived in cooler #1 added to W.O. as 1307328-41 (2 vials)

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? (YES) (See Table below) / NO

pH Excursion:

ALS Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1307328-35-4	GP-9	7	<2	H_2SO_4	1.0	50048	04G	LAS 7/20/13@ 0940
36-4	GP-11	4	↓	↓	↓	↓	↓	↓
37-4	GP-14	3	↓	↓	↓	↓	↓	↓
38-4	GP-15	4	↓	↓	↓	↓	↓	↓

If applicable, was the client contacted? YES / NO / (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: 7/20/13

Form 201r24.xls (06/04/2012)

Page 2 of 2

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (10')	**Lab ID:**	1307521-1
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:15	**Percent Moisture:**	14.9

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		5.7	UG/KG	1	7/30/2013 17:30
TOLUENE	ND		5.7	UG/KG	1	7/30/2013 17:30
ETHYLBENZENE	ND		5.7	UG/KG	1	7/30/2013 17:30
M+P-XYLENE	ND		5.7	UG/KG	1	7/30/2013 17:30
O-XYLENE	ND		5.7	UG/KG	1	7/30/2013 17:30
Surr: DIBROMOFLUOROMETHANE	*104*		*61-134*	*%REC*	1	7/30/2013 17:30
Surr: TOLUENE-D8	*94*		*57-135*	*%REC*	1	7/30/2013 17:30
Surr: 4-BROMOFLUOROBENZENE	*101*		*52-151*	*%REC*	1	7/30/2013 17:30
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		120	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (15')	**Lab ID:**	1307521-2
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:20	**Percent Moisture:**	3.4

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		4.7	UG/KG	1	7/30/2013 17:53
TOLUENE	ND		4.7	UG/KG	1	7/30/2013 17:53
ETHYLBENZENE	ND		4.7	UG/KG	1	7/30/2013 17:53
M+P-XYLENE	ND		4.7	UG/KG	1	7/30/2013 17:53
O-XYLENE	ND		4.7	UG/KG	1	7/30/2013 17:53
Surr: DIBROMOFLUOROMETHANE	*101*		*61-134*	*%REC*	1	7/30/2013 17:53
Surr: TOLUENE-D8	*96*		*57-135*	*%REC*	1	7/30/2013 17:53
Surr: 4-BROMOFLUOROBENZENE	*99*		*52-151*	*%REC*	1	7/30/2013 17:53
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		100	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS VOLATILES			**SW8260**		Prep Date: **7/30/2013**	PrepBy: **SDW**
BENZENE	ND		5.2	UG/KG	1	7/30/2013 18:15
TOLUENE	ND		5.2	UG/KG	1	7/30/2013 18:15
ETHYLBENZENE	ND		5.2	UG/KG	1	7/30/2013 18:15
M+P-XYLENE	ND		5.2	UG/KG	1	7/30/2013 18:15
O-XYLENE	ND		5.2	UG/KG	1	7/30/2013 18:15
Surr: DIBROMOFLUOROMETHANE	*100*		*61-134*	*%REC*	1	7/30/2013 18:15
Surr: TOLUENE-D8	*95*		*57-135*	*%REC*	1	7/30/2013 18:15
Surr: 4-BROMOFLUOROBENZENE	*98*		*52-151*	*%REC*	1	7/30/2013 18:15
OIL & GREASE, GRAVIMETRIC			**SW9071**		Prep Date: **7/31/2013**	PrepBy: **BCH**
OIL AND GREASE	ND		110	MG/KG	1	8/1/2013

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

Diesel Range Organics:

Client:	CTL Thompson	**Date:**	*05-Aug-13*
Project:	FC05859.001-205 4060 CLR Erie	**Work Order:**	1307521
Sample ID:	GP-16 (20')	**Lab ID:**	1307521-3
Legal Location:		**Matrix:**	SOIL
Collection Date:	7/19/2013 12:30	**Percent Moisture:**	6.2

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **EX130731-6-1** Instrument ID **Balance** Method: **SW9071**

LCS Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2060	100	2060		100	80-120			20	

LCSD Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2040	100	2060		99	80-120	2060	1	20	

MB Sample ID: **EX130731-6** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	100	100								

MS Sample ID: **1307521-2** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: **GP-16 (15')** Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2090	102	2110	100	99	80-120			20	

MSD Sample ID: **1307521-2** Units: **MG/KG** Analysis Date: **8/1/2013**

Client ID: **GP-16 (15')** Run ID: **EX130731-6A** Prep Date: **7/31/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
OIL AND GREASE	2090	102	2100	100	100	80-120	2090	0	20	

The following samples were analyzed in this batch: 1307521-1 1307521-2 1307521-3

QC BATCH REPORT

Batch ID: **VL130730-2-1** Instrument ID **HPV1** Method: **SW8260**

LCS Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 16:19**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.6	5	40		109	73-126			30	
TOLUENE	40.1	5	40		100	71-127			30	
ETHYLBENZENE	39.2	5	40		98	74-127			30	
M+P-XYLENE	78.3	5	80		98	79-126			30	
O-XYLENE	39.9	5	40		100	77-125			30	
Surr: DIBROMOFLUOROMETHA	51.9		50		104	61-134				
Surr: TOLUENE-D8	48		50		96	57-135				
Surr: 4-BROMOFLUOROBENZE	51.4		50		103	52-151				

LCSD Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 16:43**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	43.2	5	40		108	73-126	43.6	1	30	
TOLUENE	40	5	40		100	71-127	40.1	0	30	
ETHYLBENZENE	39.1	5	40		98	74-127	39.2	0	30	
M+P-XYLENE	79.9	5	80		100	79-126	78.3	2	30	
O-XYLENE	40.3	5	40		101	77-125	39.9	1	30	
Surr: DIBROMOFLUOROMETHA	51.9		50		104	61-134		0		
Surr: TOLUENE-D8	48.5		50		97	57-135		1		
Surr: 4-BROMOFLUOROBENZE	52.1		50		104	52-151		1		

MB Sample ID: **VL130730-2** Units: **UG/KG** Analysis Date: **7/30/2013 17:06**

Client ID: Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	ND	5								
TOLUENE	ND	5								
ETHYLBENZENE	ND	5								
M+P-XYLENE	ND	5								
O-XYLENE	ND	5								
Surr: DIBROMOFLUOROMETHA	50.9		50		102	61-134				
Surr: TOLUENE-D8	47.7		50		95	57-135				
Surr: 4-BROMOFLUOROBENZE	50.8		50		102	52-151				

Client: CTL Thompson
Work Order: 1307521
Project: FC05859.001-205 4060 CLR Erie

QC BATCH REPORT

Batch ID: **VL130730-2-1** Instrument ID **HPV1** Method: **SW8260**

MS Sample ID: **1307521-3** Units: **UG/KG** Analysis Date: **7/30/2013 18:38**

Client ID: **GP-16 (20')** Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.4	5.12	40.9	5.2	101	73-126			30	
TOLUENE	37.4	5.12	40.9	5.2	91	71-127			30	
ETHYLBENZENE	36.7	5.12	40.9	5.2	90	74-127			30	
M+P-XYLENE	73.4	5.12	81.9	5.2	90	79-126			30	
O-XYLENE	37.4	5.12	40.9	5.2	91	77-125			30	
Surr: DIBROMOFLUOROMETHA	53.3		51.2		104	61-134				
Surr: TOLUENE-D8	48.4		51.2		95	57-135				
Surr: 4-BROMOFLUOROBENZE	51.7		51.2		101	52-151				

MSD Sample ID: **1307521-3** Units: **UG/KG** Analysis Date: **7/30/2013 19:02**

Client ID: **GP-16 (20')** Run ID: **VL130730-2A** Prep Date: **7/30/2013** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	41.7	5.15	41.2	5.2	101	73-126	41.4	1	30	
TOLUENE	37.4	5.15	41.2	5.2	91	71-127	37.4	0	30	
ETHYLBENZENE	35.5	5.15	41.2	5.2	86	74-127	36.7	3	30	
M+P-XYLENE	72.2	5.15	82.3	5.2	88	79-126	73.4	2	30	
O-XYLENE	36	5.15	41.2	5.2	88	77-125	37.4	4	30	
Surr: DIBROMOFLUOROMETHA	52.4		51.5		102	61-134		2		
Surr: TOLUENE-D8	48.9		51.5		95	57-135		1		
Surr: 4-BROMOFLUOROBENZE	51.1		51.5		99	52-151		1		

The following samples were analyzed in this batch: 1307521-1 1307521-2 1307521-3

April 12, 2013

INA Group, LLC
6333 Apples' Way, Suite 115
Lincoln, NE 68516

Attention: Tom Beckius

Subject: Phase II Environmental Site Assessment
4060 County Line Road, Erie, Colorado
CTL | T Project No. FC05859.001

INTRODUCTION

This report presents the analytical results for soil and groundwater samples collected during the Phase II Environmental Site Assessment (ESA) of 4060 County Line Road in Erie, Colorado, hereafter known as "the site". The site is developed with an abandoned former pre-cast concrete manufacturing plant.

BACKGROUND

CTL|Thompson, Inc. (CTL) performed a Phase I ESA of the site in 2012 (Project Number FC05859.000, Phase I ESA report dated June 7, 2012). The Phase I ESA was performed for Skyline Builders, who was a prospective purchaser of the site. CTL understands that INA Group, LLC is the current owner of the site and has received authorization from Skyline Builders to use the information in the Phase I ESA as the basis for this current Phase II ESA. The following recognized environmental conditions (RECs) were identified during the 2012 Phase I ESA:

1. Hazardous materials storage was observed at the site in the form of 55 gallon drums and smaller containers. The drums appeared to contain motor oil, hydraulic oil, deactivator and other unknown contents. The containers were stored directly on the soil without secondary containment, and many containers and drums appeared to be damaged and leaking. Extensive soil staining was observed in the vicinity of many of the containers. Due to the presence of visible staining and the potential for subsurface soil and groundwater contamination, hazardous materials storage was determined to be a REC.

2. Odors of petroleum products were observed inside the pre-cast building. Odors indicated the potential presence of petroleum products on the building structure and in the bare soil floor of the building. Due to the material threat of releases of petroleum products to the building and subsurface soils or groundwater, the petroleum odors were considered a REC.

3. The site contains a number of piles of soil, concrete and other improperly disposed wastes, and various hazardous materials containers. The origin of the soils is unknown, and staining was observed in the vicinity of the wastes, indicating potential releases of hazardous substances and/or petroleum products. These releases were considered a REC.

4. Based on records reviews, a gasoline underground storage tank (UST) of unknown size was registered to the site but is listed in state files as having been removed. However, the state files did not contain any documentation to confirm the removal or to confirm that the UST location was assessed for releases at the time of the reported removal. A relative of the prior owner told CTL that the UST had likely been located on the east end of the pre-cast building. Due to the risk of releases from USTs, this UST was considered a REC.

On June 19 2012, CTL provided Skyline Builders with a scope of work to perform a Phase II ESA at the site. At the request of INA Group, LLC, the same scope of work was re-proposed on February 19, 2013, to INA Group, LLC. The objective of the Phase II ESA was to assess subsurface soils and groundwater for evidence of releases associated with RECs identified during the Phase I ESA.

This Phase II ESA is intended to assess the site for gross evidence of contamination and is not intended to fully delineate the horizontal and vertical extent of contamination, if identified. Borings were installed in locations that would indicate the presence of contamination. If contamination was identified, the limited number of borings and samples would not identify the extent or the source of contamination nor should the concentrations imply that these are the highest concentrations on the Site. For example, any one of these borings could be moved ten or more feet and higher concentrations of contamination could be identified. The presence of contamination during the Phase II is an indicator of contamination and additional investigation would be required to determine the source, extent, and highest concentration of contamination.

GROUND PENETRATING RADAR (GPR) SURVEY

CTL subcontracted Ground Penetrating Radar Systems to conduct a GPR survey of locations believed to have been likely locations of a former gasoline UST. Based on an interview with Ms. Zaruba, a relative of the former pre-cast facility owner, the UST was likely east of the pre-cast building.

The GPR survey was performed on March 20, 2013, by rolling a tricycle cart-mounted GPR unit in a grid pattern across each area of interest. For the site, the areas surveyed are shown on Figure 1 and included:

- A large, apparent unpaved driveway or parking area extending eastward from the east end of the building. Areas covered with vegetation or other obstacles were not surveyed. This area was believed to be the most likely former UST location based on Ms. Zaruba's recollection. The GPR survey did not identify obvious buried objects or changes in soil density (possible indication of prior excavation).

- Two approximate rectangular areas of bare soil along the east entrance road. Both of these areas are situated near a concrete trough that reportedly held aboveground diesel tanks. The GPR survey did not identify obvious buried objects or changes in soil density.

- Northeast side of pre-cast building. A possible vent-pipe was observed near the northeast corner of the building, and a concrete pad is present along this portion of the building exterior. The GPR survey indicated an apparent change in soil density near the northeast corner, approximately 5 feet north of the building and a possible vent pipe. Approximately 20 feet further to the west, the GPR indicated a possible buried object. Both findings were considered significant. Between the location of the these two significant GPR findings, the GPR could not access the ground surface due to the presence of a large volume of waste material and drums. The two significant GPR findings were marked in the field for potential further investigation.

TEST PITS

Based on the results of the GPR survey, INA Group LLC authorized CTL to advance test pits in the locations of the two significant GPR findings. CTL subcontracted A&D Environmental and on March 25, 2013, observed the excavation of one test pit at each of the two locations of significant GPR findings. Each test pit was excavated to final dimensions of approximately 5-feet length by 5-feet width and 5-feet depth. A concrete pad was observed to run along the north side of the building in the area of the excavations. The concrete pad appeared to be partially broken near the northeast corner of the building.

Soils in each test pit were generally brown sandy clays and did not exhibit staining or odors. Obvious buried objects were not observed in the test pit where the GPR survey had indicated possible buried objects. The test pit corresponding to the GPR finding of possible change in soil density contained several pieces of re-bar and concrete near the bottom of the excavation, and an apparent electrical line that appeared to have been cut, also located near the bottom of the excavation. No other evidence of a former UST was observed.

Based on the GPR survey and test pits, it appears that the northeast corner of the building could have been a former UST location, although there was not sufficient evidence to confirm this.

DRILLING AND SAMPLING

On March 26, 2013, Mr. Dana Harris of CTL mobilized to the site with subcontractor Drilling Engineers, Inc. A track-mounted direct push drill rig was used to advance seven borings (GP-1 through GP-7) as shown in our proposal, with two exceptions:

- Boring location 4 was moved to the northeast corner of the building, where the UST may have been located; and

- Boring location 5 was moved to a central location (between proposed borings 4 and 5) east of the pre-cast building. Based on the findings of the GPR survey and test pits, it did not appear that more than one boring was necessary for the area immediately east of the pre-cast building.

One hand-excavated surficial soil sample (S-8) was collected using a disposable plastic trowel from the trench inside the pre-cast building. Boring and sample locations are shown on Figure 2.

During advancement of each boring, soil samples were collected continuously in 5-foot teflon cores down to a maximum depth of 25 feet below grade.

Soils from core samples were observed in the field using disposable vinyl examination gloves changed after every sample. After the soils were visually inspected, the soil sample from each core was divided. A portion of the sample was transferred into a plastic zip-loc bag and sealed; the other portion of the sample was promptly placed into a uniquely identified glass jar and packed tightly to minimize voids. Sample jars were then placed into a cooler chilled with ice for in-field storage and transit to the laboratory. The samples in the plastic bags were warmed and allowed to sit undisturbed to allow possible volatile organic compounds (VOCs) in the soils to vaporize into the headspace of the bags. A photoionization detector (PID) was used to determine the field concentration of VOCs of the headspace in the zip-loc bags.

Following completion of soil sampling, 1-inch PVC casings with slotted screen were inserted into the boreholes as temporary wells to facilitate groundwater sampling. Groundwater samples were collected using a peristaltic pump. Upon completion of sampling, the temporary wells were removed and each borehole was backfilled with cuttings and hydrated bentonite pellets.

Samples collected for laboratory analysis were delivered under chain of custody protocol to Technology Laboratory, Inc. in Fort Collins, Colorado, an independent analytical laboratory.

FIELD OBSERVATIONS

Boring logs are presented in Appendix A. Soils generally consisted of sandy clays and clayey sands underlain by weathered claystone/sandstone bedrock (generally observed as sand, gravel, pebbles, and cobbles) at depths of 14 to 17 feet below grade. Saturated soils were encountered within the coarse weathered bedrock materials at depths of 20 to 23 feet below grade. Several borings were advanced near locations where waste dumping, drums, or extensive staining was observed during the Phase I ESA. Surface features were difficult to observe during drilling due to the presence of approximately one foot of recent snow.

Obvious field evidence of releases was not observed, except at two boring locations:

- GP-2, inside the pre-cast building – slight staining and strong to moderate oil-like odors were observed in soils to a depth of approximately 7 feet below grade. Apparent saturated soils were observed at depths of approximately 20 to 23 feet

below grade, although groundwater was not encountered after drilling and installing a temporary monitoring well. A sample was collected for laboratory analysis from a depth of approximately 21 to 22 feet below grade, representing the apparent top of the saturated zone. PID readings from soils screened from this boring were non-detect (not unusual for heavy oil products).

- GP-7, north portion of the site exterior – this boring was advanced approximately 2 feet from a leaking 55-gallon drum of apparent form oil. Heavy staining and oil-like odor was evident in top-soil and vegetative matter, but graded out by a depth of approximately 2-feet below grade. PID readings from soils screened from this boring were non-detect (not unusual for heavy oil products).

The trench inside the pre-cast building was partially filled with dumped wastes, but visible soils inside the trench generally appeared similar to those of the dirt floor elsewhere in the building, with light staining and a petroleum odor.

LABORATORY ANALYTICAL RESULTS

Soils

The soil samples were analyzed for total volatile petroleum hydrocarbons (TVPH) and total extractable petroleum hydrocarbons (TEPH) by EPA Method 8015; Oil & Grease by EPA Method 9071; and volatile organic compounds (VOCs) by EPA Method 8260. Laboratory analytical results are included in Appendix B, and soil results are summarized on Table 1 below.

The surficial soil sample collected from the trench inside the building contained TVPH, TEPH, and Oil and Grease at concentrations less than the Colorado limit of 500 milligrams per kilogram (mg/kg) for USTs, which is not directly applicable to releases from the pre-cast operation but is the most relevant regulatory standard. VOCs were not detected above laboratory detection levels.

Table 1
Soil Analytical Results

Sample	Depth (feet below grade)	Results (milligrams per kilogram [mg/kg])			
		TVPH	TEPH	Oil & Grease	VOCs
GP-1	21-22	< 0.5	< 10.0	<50.0	None detected
GP-2	21-22	< 0.5	< 10.0	<50.0	None detected
GP-3	21-22	< 0.5	< 10.0	<50.0	None detected
GP-4	22-23	< 0.5	< 10.0	<50.0	None detected

Table 1 Soil Analytical Results					
Sample	Depth (feet below grade)	Results (milligrams per kilogram [mg/kg])			
		TVPH	TEPH	Oil & Grease	VOCs
GP-5	22-23	< 0.5	< 10.0	<50.0	None detected
GP-6	20-22	< 0.5	< 10.0	<50.0	None detected
GP-7	20-21	< 0.5	< 10.0	<50.0	None detected
S-8	1-2	0.95	65.5	316	None detected
Colorado OPS Limit[1]	-	500	500	500	-

1. Colorado Department of Labor and Employment, Division of Oil and Public Safety, Tier I Risk Based Screening Levels, 2005.

Groundwater

Groundwater was not encountered at GP-2. The groundwater samples from the remaining six borings were analyzed for VOCs by EPA Method 8260. VOCs were not detected above laboratory detection levels.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this investigation, we conclude the following:

- Gasoline UST – the GPR survey and test pit investigation were not able to locate a current UST where the prior owner indicated it was likely to have been. A possible vent pipe on the northeast corner of the building and the presence of broken concrete, re-bar, and an electric line in the test pit near the northeast corner suggest that a UST may have been removed from this location, although there is not sufficient evidence to confirm this. Based on field and laboratory evaluation of soil and groundwater samples from this location, there is no evidence of a gasoline release. Based on these results and the information previously reviewed during the Phase I ESA which indicated the UST was considered "closed" by the state, it does not appear further investigation of the UST would be warranted a this time.

- Pre-cast building – surficial soil sample S-8 collected from the trench inside the pre-cast building contained petroleum hydrocarbons at concentrations less than the Colorado UST standard, which is not directly applicable but is the most relevant regulatory standard for comparison. Field screening of soils from boring GP-2 indicated that an oil-like contamination may be present in soils to a depth of

7 feet below grade, if not deeper. One soil sample from a depth of approximately 21 to 22 feet below grade at boring GP-2 was submitted for laboratory analysis and did not contain petroleum hydrocarbons or VOCs above laboratory detection limits. Although saturated soils were observed during drilling GP-2, groundwater was not encountered approximately 5 hours after installation of a temporary well, and a groundwater sample was not collected. Based on field observations and laboratory analytical results for the two sample locations inside the building (S-8 and GP-2), it does appear that the use of form-oil or other materials at the pre-cast operation have impacted surface and subsurface soils. Although a groundwater sample could not be collected inside the building, the groundwater analytical results from surrounding borings did not identify gross groundwater contamination across the site. The sampling conducted during this Phase II ESA was not intended to delineate the horizontal or vertical extent of contamination.

- Wastes/drums – based on the soil and groundwater laboratory results from borings advanced in the general location of wastes and drums, there is no evidence of gross contamination of subsurface soils or groundwater. Evidence of potential localized shallow soil contamination was observed in several locations.

Based on the results of this investigation, it may be warranted to conduct additional investigation inside the pre-cast building. If the facility has been regulated under one or more environmental regulatory programs, there may be reporting requirements for the releases identified. The presence of leaking drums and other wastes on the site is likely in violation of Colorado solid and hazardous waste regulations. Furthermore, the presence of leaking drums may be in conflict with the continuing obligations that must be followed in order to qualify for liability protections under 40 CFR 312. It may be warranted to consult legal counsel regarding the status of the site and the findings of this investigation.

LIMITATIONS

The subsurface investigation and chemical analysis were performed for specific parameters, as detailed in this letter. The accuracy and reliability of environmental studies are a reflection of the number and type of samples taken and extent of the analyses conducted, and are thus inherently limited and dependent upon the resources expended. An independent laboratory performed laboratory analysis. We are not responsible for the accuracy of data presented by others. The services performed should not be interpreted as providing any guarantee that the materials are free and clear of all hazardous or toxic materials.

We believe that our services were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

Thank you for choosing us to assist you with this project. If you have any questions or would like further clarification regarding this letter, please call.

Very truly yours,

CTL | THOMPSON, INC.

Dana L. Harris
Environmental Department Manager, Fort Collins

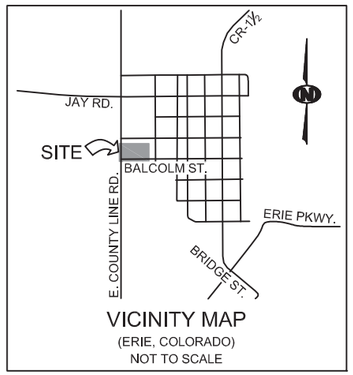
Matthew L. Wardlow, P.E.
Environmental Department Manager, Denver

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

GPR survey area

Test pit location



VICINITY MAP
(ERIE, COLORADO)
NOT TO SCALE

Figure 1
Phase II ESA
GPR and Test Pit Locations
4060 County Line Road Erie,
Colorado FC05859.001

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

Boring location

GPR survey area

Test pit location

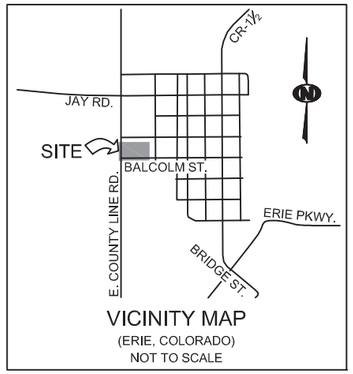


Figure 2
Phase II ESA
Boring Locations
4060 County Line Road
Erie, Colorado FC05859.001

Appendix A

Boring Logs

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FC05859.001 Project Name: 4060 County Line Road Hole#: GP-1

CTL Representative DM Hole Location: _____ Elevation: _____ Start: 0800 Finish: 0900

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe / Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Asphalt / road base	0
					90	0.0	Brown sandy clay, dry, no odor	
							Grades to mottled tan + gray clayey sand,	
5							dry, no odor	5
					90	0.0	Grades to tan clayey sand, dry, no odor	
10								10
							Grades to tan sandy clay, dry, no odor - ~8" layer	
					90	0.0	Grades to mottled tan + gray clayey sand, dry, no odor	
15							Grades to red-brown sand, gravel, pebbles, moist, no odor	15
							Grades to tan-brown sand + gravel, dry, no odor	
					60	0.0	Grades to med-fine sand + clay w/ gravel + cobbles, moist no odor	
20				▼			Graded to tan sandy clay, wet, no odor	20
		X						
		GP-1 @			95	0.0		
		21 - 20'					Moisture graded out, becomes more clayey, no odor	
25							End boring @ 25' / Insert 1" casing, 10' screen,	25
							(temp well)	
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FCO5859.001 Project Name: 4060 County Line Road Hole#: GP-2

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 0900 Finish: 1000

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	RE % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Grey to tan sand + gravel, cobbles, dry, 0.1 odor	0
					95	0.0	Grades to brown clayey sand, dry, 0.1 odor	
5							Grades to mottled brown + tan clayey sand, dry, 0.1 odor	5
					75	0.0	- odor graded out @ 5-7' bgs	
							Grades to brown sandy clay	
10								10
					75	0.0	SAA	
15							Grades to red-brown clay, sand, gravel, cobbles, marl, no odor (weathered bedrock)	15
					85	0.0		
20		X					Grades to tan sandy clay, wet, no odor	20
		GP-2 @ 21-22'			75	0.0	Grades to tan clay, plastic, dry, no odor	
25							End boring @ 25', insert 10' screen (temp well)	25
							@ 1425 - hole dry	
30							@ 1500 - hole dry - abandon	30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/28/13 Project #: FC05859.001 Project Name: 4060 County Line Road Hole#: GP-3

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1000 Finish: 1035

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary Modifier Moisture Consistency Color Notes	Depth
0							Concrete	0
					80	0.0	Brown sand and gravel, wet (snow melt), no odor Grades to brown, sandy, clay, moist, no odor	
5							Grades to mottled tan + gray sandy clay, dry, no odor	5
					80	0.0	Grades to tan clayey sand, dry, no odor	
10								10
					90	0.0	SAA w/ alternating clay/sand dominance	
15								15
					95	0.0	Grades to tan to red-brown sand, gravel, cobbles, dry, no odor (weathered bedrock)	
							SAA w/ 6" layer m-f sand	
20		X		▽				20
		GP-3 @ 21-22'		=	40	0.0	Grades to reddish brown sand + gravel, wet, no odor	
25							End boring @ 25', install 10' screen (temp well)	25
30								30
35								35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California Piezometer set: Y N Depth to Bedrock _____

Bulk Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FC0559.001 Project Name: 4060 CLR Hole#: GP-4

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1040 Finish: 1115

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	% Fines	PID / NSC Symbol	DESCRIPTIONS / NOTES (Primary, Modifier, Moisture, Consistency, Color, Notes)	Depth
0							Gray, sand + gravel, ~~&~~ concrete, wet (snow melt), no odor	0
					60	0.0	Red-brown sand + gravel, moist, no odor	
							Grades to brown sandy clay, dry, no odor	
5								5
					80	0.0	Grades to mottled tan + gray sandy clay, dry, no odor	
							Grades to tan clayey sand, dry, no odor	
10								10
					75	0.0	SAA	
15							Grades to tan sandy clay, moist, no odor	15
					85	0.0	Grades to red-brown sand + gravel, moist, no odor	
20								20
		6T4 @20-23' X			75	0.0	SAA, becomes saturated ~ 22' bgs	
25							End boring @ 25', inst 10' screen (temp well)	25
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: _____ Project Name: 4060 CLR Hole#: GP-5

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1115 Finish: 1200

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary	Modifier	Moisture	Consistency	Color	Notes	Depth
0							Gray to tan sand + gravel, wet (snowmelt), no odor						0
							Tan sand + gravel, moist, no odor						
					80	0.0	Tan to gray clayey sand w/ gravel + cobbles, dry, no odor						
5							Brown clayey sand, dry, no odor						5
							Grades to mottled brown + gray clayey sand, dry, no odor						
					80	0.0	SAA						
10													10
					90	0.0	Grades to tan - red med-f sand, dry, no odor						
							Grades to red-brown sand, gravel, cobbles,						
15							dry, no odor (weathered bedrock)						15
					90	0.0	SAA						
20													20
		X	GP-5 20-23'		60	0.0	Grades to gray sandy clay, saturated, no odor						
							Grades back to weathered bedrock, saturated, no odor						
25							End boring @ 25'; Inst 15' screen (temp well)						25
30													30
35													35

Split Spoon | Clay | Sand | Gravel | Claystone | Sandstone

C California | Piezometer set: Y N | Depth to Bedrock _____

Bulk | Groundwater During Drilling _____ | Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FC05859.001 Project Name: 4060 CLR Hole#: GP-6

CTL Representative DH Hole Location: _____ Elevation: _____ Start: 1200 Finish: 1245

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe / Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	REC % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0					90	0.0	Grass/vegetation, top soil, moist, no odor. Brown sandy clay w/ organic matter, moist, no odor	0
5					100	0.0	Grades to mottled brown + gray clayey sand, dry, no odor	5
10					100	0.0	SAA	10
15					80	0.0	Grades to red-brown sand, gravel, cobbles, dry, no odor (weathered bedrock)	15
20		X	GP-6 @ 20-20'	▼	80	0.0	SAA, w/ increasing cobble content, moist	20
25							Tan clay, plastic, saturated, no odor. Weathered bedrock, saturated, no odor. End boring @ 25'; temp well	25
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Field Boring Log

CTLITHOMPSON

Lat: _____ Long: _____

Date: 3/26/13 Project #: FI05859.001 Project Name: 4060 County Line Rd Hole#: GP-7

CTL Representative DM Hole Location: _____ Elevation: _____ Start: 1245 Finish: 1400

Drill Company DE Rig / Hammer / Auger Type: CME 45 55 Other: Geoprobe /Manual Auto / 4"SS 6"HS Other

Depth	Hatch Pattern	Sample 1	Sample 2	Blow Count	RCZ % Fines	PID USC Symbol	DESCRIPTIONS / NOTES Primary / Modifier / Moisture / Consistency / Color / Notes	Depth
0							Grass/vegetation, top soil, heavy oil stains + odor	0
					95	0.0	Grades to brown sandy clay, moist, w/ organic matter - No stainings, but slight oil odor.	
5								5
					85	0.0	Grades to tan med-fine sand w/ pebbles, cobbles. Dry. No stain or odor.	
10								10
					80	0.0	SAA	
15								15
					80	0.0	Grades to brown to tan sandy clay, stiff, moist, no odor. Grades to red-brown med-f sand & gravel, moist, no odor.	
20		X					SAA, becoming saturated ~ 20.	20
		GP-7 @ 20-21'			80	0.0		
25							End boring @ 25', set temp well.	25
30								30
35								35

Split Spoon | C California | Bulk | Clay | Sand | Gravel | Claystone | Sandstone

Piezometer set: Y N Depth to Bedrock _____

Groundwater During Drilling _____ Groundwater After Drilling _____ Date _____

Appendix B

Laboratory Analytical Results

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	GRO (TVPH) mg/Kg
A8012-01	GP-1	03/26/13	03/27/13	< 0.5
A8012-02	S-8	03/26/13	03/27/13	0.95
A8012-04	GP-2	03/26/13	03/27/13	< 0.5
A8012-05	GP-3	03/26/13	03/27/13	< 0.5
A8012-06	GP-4	03/26/13	03/27/13	< 0.5
A8012-07	GP-5	03/26/13	03/27/13	< 0.5
A8012-08	GP-6	03/26/13	03/27/13	< 0.5
A8012-09	GP-7	03/26/13	03/27/13	< 0.5

GRO (TVPH) Method: EPA-8260B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	DRO (TEPH) mg/Kg
A8012-01	GP-1	03/26/13	03/28/13	< 10.0
A8012-02	S-8	03/26/13	03/28/13	65.5
A8012-04	GP-2	03/26/13	03/28/13	< 10.0
A8012-05	GP-3	03/26/13	03/28/13	< 10.0
A8012-06	GP-4	03/26/13	03/28/13	< 10.0
A8012-07	GP-5	03/26/13	03/28/13	< 10.0
A8012-08	GP-6	03/26/13	03/28/13	< 10.0
A8012-09	GP-7	03/26/13	03/28/13	< 10.0

DRO (TEPH) Method: EPA-8015B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Date Received: 03/27/13
Matrix: Soil
Project No.: FC05859.001

Lab ID	Sample ID	Date Sampled	Date Analyzed	HEM mg/Kg
A8012-01	GP-1	03/26/13	04/03/13	< 50
A8012-02	S-8	03/26/13	04/03/13	316
A8012-04	GP-2	03/26/13	04/03/13	< 50
A8012-05	GP-3	03/26/13	04/03/13	< 50
A8012-06	GP-4	03/26/13	04/03/13	< 50
A8012-07	GP-5	03/26/13	04/03/13	< 50
A8012-08	GP-6	03/26/13	04/03/13	< 50
A8012-09	GP-7	03/26/13	04/03/13	< 50

HEM Method: EPA-9071B

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-1
Laboratory ID: A8012-01

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	108	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: S-8
Laboratory ID: A8012-02

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	112	81-128
Bromofluorobenzene	88	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-1
Laboratory ID: A8012-03

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	100	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
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CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-2
Laboratory ID: A8012-04

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	107	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-3
Laboratory ID: A8012-05

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	104	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	94	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-4
Laboratory ID: A8012-06

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-5
Laboratory ID: A8012-07

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	109	68-120
Toluene-d8	106	81-128
Bromofluorobenzene	97	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
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CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-6
Laboratory ID: A8012-08

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	105	81-128
Bromofluorobenzene	95	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
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CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-7
Laboratory ID: A8012-09

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/27/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Soil

CAS Number	Parameter	Result µg/Kg	MDL µg/Kg	CAS Number	Parameter	Result µg/Kg	MDL µg/Kg
71-43-2	Benzene	< 10	10	108-88-3	Toluene	< 10	10
100-41-4	Ethylbenzene	< 10	10	1330-20-7	Total Xylenes	< 10	10
91-20-3	Naphthalene	< 10	10	75-01-4	Vinyl Chloride	< 10	10
74-87-3	Chloromethane	< 10	10	74-83-9	Bromomethane	< 10	10
75-00-3	Chloroethane	< 10	10	75-69-4	Trichlorofluoromethane	< 10	10
75-35-4	1,1-Dichloroethene	< 10	10	156-60-5	trans-1,2-Dichloroethene	< 10	10
156-59-2	cis-1,2-Dichloroethene	< 10	10	75-09-2	Methylene Chloride	< 10	10
75-34-3	1,1-Dichloroethane	< 10	10	74-97-5	Bromochloromethane	< 10	10
67-66-3	Chloroform	< 10	10	71-55-6	1,1,1-Trichloroethane	< 10	10
56-23-5	Carbon Tetrachloride	< 10	10	107-06-2	1,2-Dichloroethane	< 10	10
79-01-6	Trichloroethene	< 10	10	78-87-5	1,2-Dichloropropane	< 10	10
75-27-4	Bromodichloromethane	< 10	10	74-95-3	Dibromomethane	< 10	10
79-00-5	1,1,2-Trichloroethane	< 10	10	142-28-9	1,3-Dichloropropane	< 10	10
590-20-7	2,2-Dichloropropane	< 10	10	563-58-6	1,1-Dichloropropene	< 10	10
10061-01-5	cis-1,3-Dichloropropene	< 10	10	10061-02-6	trans-1,3-Dichloropropene	< 10	10
127-18-4	Tetrachloroethene	< 10	10	106-93-4	1,2-Dibromoethane (EDB)	< 10	10
124-48-1	Dibromochloromethane	< 10	10	108-90-7	Chlorobenzene	< 10	10
630-20-6	1,1,1,2-Tetrachloroethane	< 10	10	100-42-5	Styrene	< 10	10
75-25-2	Bromoform	< 10	10	79-34-5	1,1,2,2-Tetrachloroethane	< 10	10
98-82-8	Isopropylbenzene	< 10	10	78-93-3	2-Butanone (MEK)	< 10	10
108-86-1	Bromobenzene	< 10	10	103-65-1	n-Propylbenzene	< 10	10
95-49-8	2-Chlorotoluene	< 10	10	106-43-4	4-Chlorotoluene	< 10	10
108-67-8	1,3,5-Trimethylbenzene	< 10	10	95-63-6	1,2,4-Trimethylbenzene	< 10	10
98-06-6	tert-Butylbenzene	< 10	10	135-98-8	sec-Butylbenzene	< 10	10
541-73-1	1,3-Dichlorobenzene	< 10	10	106-46-7	1,4-Dichlorobenzene	< 10	10
99-87-6	4-Isopropyltoluene	< 10	10	104-51-8	n-Butylbenzene	< 10	10
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 10	10	120-82-1	1,2,4-Trichlorobenzene	< 10	10
87-61-6	1,2,3-Trichlorobenzene	< 10	10	87-68-3	Hexachlorobutadiene	< 10	10
95-50-1	1,2-Dichlorobenzene	< 10	10	67-64-1	Acetone	< 100	100

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	107	68-120
Toluene-d8	108	81-128
Bromofluorobenzene	96	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-3
Laboratory ID: A8012-10

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-4
Laboratory ID: A8012-11

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
75-25-2	Bromoform	< 0.5	0.5	79-34-5	1,1,2,2-Tetrachloroethane	< 0.5	0.5
98-82-8	Isopropylbenzene	< 0.5	0.5	78-93-3	2-Butanone (MEK)	< 0.5	0.5
108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
541-73-1	1,3-Dichlorobenzene	< 0.5	0.5	106-46-7	1,4-Dichlorobenzene	< 0.5	0.5
99-87-6	4-Isopropyltoluene	< 0.5	0.5	104-51-8	n-Butylbenzene	< 0.5	0.5
108-10-1	4-Methyl-2-Pentanone (MIBK)	< 0.5	0.5	120-82-1	1,2,4-Trichlorobenzene	< 0.5	0.5
87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	100	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	92	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-5
Laboratory ID: A8012-13

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
71-43-2	Benzene	< 0.5	0.5	108-88-3	Toluene	< 0.5	0.5
100-41-4	Ethylbenzene	< 0.5	0.5	1330-20-7	Total Xylenes	< 0.5	0.5
91-20-3	Naphthalene	< 0.5	0.5	75-01-4	Vinyl Chloride	< 0.5	0.5
74-87-3	Chloromethane	< 0.5	0.5	74-83-9	Bromomethane	< 0.5	0.5
75-00-3	Chloroethane	< 0.5	0.5	75-69-4	Trichlorofluoromethane	< 0.5	0.5
75-35-4	1,1-Dichloroethene	< 0.5	0.5	156-60-5	trans-1,2-Dichloroethene	< 0.5	0.5
156-59-2	cis-1,2-Dichloroethene	< 0.5	0.5	75-09-2	Methylene Chloride	< 0.5	0.5
75-34-3	1,1-Dichloroethane	< 0.5	0.5	74-97-5	Bromochloromethane	< 0.5	0.5
67-66-3	Chloroform	< 0.5	0.5	71-55-6	1,1,1-Trichloroethane	< 0.5	0.5
56-23-5	Carbon Tetrachloride	< 0.5	0.5	107-06-2	1,2-Dichloroethane	< 0.5	0.5
79-01-6	Trichloroethene	< 0.5	0.5	78-87-5	1,2-Dichloropropane	< 0.5	0.5
75-27-4	Bromodichloromethane	< 0.5	0.5	74-95-3	Dibromomethane	< 0.5	0.5
79-00-5	1,1,2-Trichloroethane	< 0.5	0.5	142-28-9	1,3-Dichloropropane	< 0.5	0.5
590-20-7	2,2-Dichloropropane	< 0.5	0.5	563-58-6	1,1-Dichloropropene	< 0.5	0.5
10061-01-5	cis-1,3-Dichloropropene	< 0.5	0.5	10061-02-6	trans-1,3-Dichloropropene	< 0.5	0.5
127-18-4	Tetrachloroethene	< 0.5	0.5	106-93-4	1,2-Dibromoethane (EDB)	< 0.5	0.5
124-48-1	Dibromochloromethane	< 0.5	0.5	108-90-7	Chlorobenzene	< 0.5	0.5
630-20-6	1,1,1,2-Tetrachloroethane	< 0.5	0.5	100-42-5	Styrene	< 0.5	0.5
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108-86-1	Bromobenzene	< 0.5	0.5	103-65-1	n-Propylbenzene	< 0.5	0.5
95-49-8	2-Chlorotoluene	< 0.5	0.5	106-43-4	4-Chlorotoluene	< 0.5	0.5
108-67-8	1,3,5-Trimethylbenzene	< 0.5	0.5	95-63-6	1,2,4-Trimethylbenzene	< 0.5	0.5
98-06-6	tert-Butylbenzene	< 0.5	0.5	135-98-8	sec-Butylbenzene	< 0.5	0.5
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87-61-6	1,2,3-Trichlorobenzene	< 0.5	0.5	87-68-3	Hexachlorobutadiene	< 0.5	0.5
95-50-1	1,2-Dichlorobenzene	< 0.5	0.5	67-64-1	Acetone	< 50	50

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	101	68-120
Toluene-d8	96	81-128
Bromofluorobenzene	91	70-113

The results contained in this report relate only to those items tested.

TECHNOLOGY LABORATORY, INC.

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-6
Laboratory ID: A8012-14

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

CAS Number	Parameter	Result µg/L	MDL µg/L	CAS Number	Parameter	Result µg/L	MDL µg/L
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1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

CTL Thompson
351 Linden Street
Fort Collins, CO 80524

Sample ID: GP-7
Laboratory ID: A8012-15

Sampled: 03/26/13
Received: 03/27/13
Analyzed: 03/28/13
Project No.: FC05859.001
Method: EPA-8260B
Matrix: Water

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TECHNOLOGY LABORATORY, INC.
1012 CENTRE AVENUE
FORT COLLINS, CO 80526
Phone: (970)490-1414 Fax: (970)472-5488
www.techlabusa.com info@techlabusa.com

W.O. NUMBER A8012

CHAIN-OF-CUSTODY REPORT

COMPANY NAME: CTL Thompson Fort Collins
PROJECT MANAGER: Dina Hoag
PROJECT NUMBER: FCC5859.001
PROJECT LOCATION OR NAME: 4000 County Line Road
SAMPLER'S SIGNATURE:

	SAMPLE ID	DATE/TIME SAMPLED	SAMPLE MATRIX: SOIL (S) AIR (A) AQUEOUS (W) OTHER (O)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED: BTEX / MTBE / TVPH	TEPH (DRO)	OIL & GREASE (HEM)	VOC 624 / 8260 (TOTAL) TCLP	SVOC 625 / 8270 / PAH (TOTAL / TCLP)	pH / TSS / TDS	RCRA 8 METALS (TOTAL / TCLP / DISSOLVED)	React. / Ignite. / Corr. / Paint Filt.	BTEX/TVPH Emissions Vapor	BTEX Soil Vapor	TO-14 / TO-15 / TVPH Vapor	NITRATE / NITRITE / AMMONIA	BOD / COD	PCBs	OTHER: HOLD AFTER ANALYSIS	HOLD, DON'T ANALYZE
01	GP-1	3/26/13 0855	S	1	X		X	X												
02	SB	3/26/13 0850	S	1	X		X	X												
03	GP-1	3/26/13 0850	W	2				X												
04	GP-2	3/26/13 0920	S	1	X		X	X												
05	GP-3	3/26/13 1015	S	1	X		X	X												
06	GP-4	3/26/13 1045	S	1	X		X	X												
07	GP-5	3/26/13 1130	S	1	X		X	X												
08	GP-6	3/26/13 1215	S	1	X		X	X												
09	GP-7	3/26/13 1300	S	1	X		X	X												
10	GP-3	3/26/13 1515	W	2				X												
11	GP-4	3/26/13 1405	W	2				X												
12	GP-2	3/26/13 1435	W	2				X												

PAGE 1 OF 2

TURNAROUND TIME
- [X] Normal (≤10 Working Days)
- [ ] 3 Day (1.5 x Normal Rates)
- [ ] Next Day (2 x Normal Rates)
- [ ] Same Day (4 x Normal Rates)

NEED EMAIL? ___ YES X NO

COMMENTS:

LOGGED IN BY: SW

Sample Preservative: [X] ≤ 6° C [ ] None [ ] Other [ ] Acid [ ] Filtered

RELINQUISHED BY:		DATE: 3-27-13	RELINQUISHED BY: VPM
COMPANY:	CTL Thompson	TIME: 8:30	COMPANY: JLT
RELINQUISHED BY:		DATE:	RELINQUISHED BY:
COMPANY:		TIME:	COMPANY:

TECHNOLOGY LABORATORY, INC.
1012 CENTRE AVENUE
FORT COLLINS, CO 80526
Phone: (970)490-1414 Fax: (970)472-5488
www.techlabusa.com info@techlabusa.com

W.O. NUMBER A8012

CHAIN-OF-CUSTODY REPORT

COMPANY NAME: CTL Thompson IE
PROJECT MANAGER: Dana Hevis
PROJECT NUMBER: FC0559.001
PROJECT LOCATION OR NAME: Weld County Line Road
SAMPLER'S SIGNATURE:

	SAMPLE ID	DATE/TIME SAMPLED	SAMPLE MATRIX: SOIL (S) AIR (A) AQUEOUS (W) OTHER (O)	NUMBER OF CONTAINERS	BTEX / MTBE / TVPH	TEPH (DRO)	OIL & GREASE	VOC 624 / 8260 (TOTAL / TCLP)	SVOC 625 / 8270 / PAH (TOTAL / TCLP)	pH / TSS / TDS	RCRA 8 METALS (TOTAL / TCLP / DISSOLVED)	React. / Ignite. / Corr. / Paint Filt.	BTEX/TVPH Emissions Vapor	BTEX Soil Vapor	TO-14 / TO-15 / TVPH Vapor	NITRATE / NITRITE / AMMONIA	BOD / COD	PCBs			OTHER						HOLD AFTER ANALYSIS	HOLD, DON'T ANALYZE
	GP-5	3/26/13 1445	W	3				X																			
	GP-6	3/26/13 1500	W	3				X																			
	GP-7	3/26/13 1520	W	3				X																			

PAGE 2 OF 2

TURNAROUND TIME

- [x] Normal (≤10 Working Days)
- [ ] 3 Day (1.5 x Normal Rates)
- [ ] Next Day (2 x Normal Rates)
- [ ] Same Day (4 x Normal Rates)

NONCONFORMANT? ___ YES X NO

COMMENTS:

LOGGED IN BY: SW

Sample Preservative: [x] ≤ 6° C [ ] Acid [ ] None [ ] Filtered [ ] Other

RELINQUISHED BY:		DATE: 3-27-13	RELINQUISHED BY:
COMPANY:	CTL Thompson	TIME: 8:30	COMPANY: TLE
RELINQUISHED BY:		DATE:	RELINQUISHED BY:
COMPANY:		TIME:	COMPANY:

CTL | THOMPSON INCORPORATED

PHASE I ENVIRONMENTAL SITE ASSESSMENT
4060 COUNTY LINE ROAD
ERIE, COLORADO

Prepared for:

Skyline Builders
202 Main Street #4
Longmont, Colorado 80501

Attention: Mr. JD Parker

Project No. FC05859.000-200

June 7, 2012

351 Linden Street, #140 | Fort Collins, Colorado 80524 | Telephone: 970-206-9455

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1.0 INTRODUCTION

This report was prepared by CTL|Thompson, Inc. (CTL) for Skyline Builders and presents the results of the Phase I Environmental Site Assessment (ESA) for 4060 County Line Road in Erie, Colorado.

The Environmental Site Assessment is the part of the property acquisition due diligence process.

1.1 Purpose

The purpose of this Phase I ESA was to identify Recognized Environmental Conditions (RECs), to the extent feasible, in general accordance with the methods and procedures described in the American Society for Testing and Materials (ASTM) Practice E 1527-05: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the property.

A REC is defined as the presence, or likely presence, of hazardous substances or petroleum products on a site under conditions that indicate an existing release, a past release, or a material threat of a future release of hazardous substances or petroleum products into structures on the site or into the ground, groundwater, or surface water of the site. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.2 Scope of Services

The scope of services for this assessment, as outlined in CTL Proposal No. FC-12-0123, generally consisted of the following tasks:

- Reconnaissance of accessible areas of the Site and a brief drive-by survey of adjacent properties to look for readily apparent indications of current or past activities that could have, in our opinion, caused significant site contamination by hazardous materials or petroleum products.

- Review of readily available historical aerial photographs, topographic maps, and records referenced within this report and interviews with persons knowledgeable of the Site to help establish past site and immediate vicinity land usage.

- Review of readily available documents and maps to evaluate physical features of the Site, such as anticipated groundwater flow direction.

- Review of a regulatory agency database report to obtain information on reported hazardous material or petroleum product incidents on the Site or within the nearby vicinity.

- Review of readily available local government agency files to obtain information about the use and storage of hazardous materials or petroleum products at the Site.

- Assessment and documentation of our findings.

2.0 SITE LOCATION AND DESCRIPTION

The Site is located at 4060 County Line Road in Erie, Colorado. The Site contains one Parcel 145718300003 and is approximately 2.5 acres and is currently developed as a warehouse/storage area but is currently vacant. The address listed on the assessor web site is 4060 1CR.

The Site is located in Section 18, Township 1 North, Range 68 West of the 6th Principal Meridian in Weld County. A recent aerial photograph, topographic map, and vicinity map are provided in Appendix A.

3.0 USER PROVIDED INFORMATION

User information was provided by Mr. JD Parker, Skyline Builders.

3.1 Reason for Performing this Phase I ESA

Skyline Builders requested this Phase I ESA as part of their due diligence for potential purchase of the property.

3.2 Previous Environmental Assessments

The current property owner representative, Mr. Clark Foster, reported the property address as 4060 County Line Road, Erie, Colorado. He was not aware of any previous environmental site assessments performed on the site.

3.3 Owner, Site Manager, and Occupant Information

The Weld County Property Assessor website stated that the current Site owners for 4060 County Line Road as INA Group, LLC.

4.0 SITE RECONNAISSANCE

4.1 Methodology and Limiting Conditions

Melissa L. Chalona of CTL conducted the site visit on May 10, 2012. The Site was observed by walking the property. No owner representative was present for the site visit, but Ms. Cheryl Zaruba, the previous site owner was interviewed via telephone about site features. Access to the Site was not restricted. The Site is occupied by two buildings for work and storage, and drive areas. Ms. Chalona performed a walk-by and drive-by survey of the surrounding properties from public roadways and adjacent properties. A photographic record of the site reconnaissance is presented in Appendix B.

4.2 Description of On-Site Structures

At the time of our reconnaissance, the property had two buildings. The main building located centrally on the Site was a large metal building that had a large work area with smaller office storage areas. The large work area appeared to have a dirt floor with a large concrete trough that ran along the south side of the building from east to west. The secondary building was located on the northeast corner of the property. It appeared to be a work/storage area with storage bins and work tables. There was a diesel fuel sign attached to the outside of the second building but there was not evidence of either an above or underground storage tank.

The Site is shown on Figure 1 and identifies existing features on the subject property. The Site surface topography was relatively flat with a slight slope to the southeast.

4.3 Other On-Site Features

During our reconnaissance, we specifically looked for obvious evidence of the features listed in Table 1. Bold text in Table 1 indicates that the feature was readily observable. The features we observed are discussed in further detail in the subsequent subsections.

Table 1
On-Site Features Under Consideration

□ **Aboveground Storage Tanks (AST's)**	□ Railroad Lines
□ Air Emission Sources	□ Septic Tanks / Leach Field Systems
□ Boilers (Non Natural Gas)	□ **Solid Waste Disposal Areas**
□ Cultivated Land, Crops, or Orchards	□ **Staining or Corrosion**
□ **Drains, Sumps, or Pits**	□ **Stressed Vegetation**
□ Emergency Generators	□ Surface Waters, Streams, Ponds, Lagoons
□ Exhaust Hoods and Ducting	
□ **Hazardous Material Storage or Use Areas**	□ **Transformers**
	□ **Underground Storage Tanks (UST's)**
□ High Power Transmission Lines	□ Unidentified Piping Leading Below Grade
□ Hydraulic Elevators or Lifts	
□ Incineration Areas	□ Unidentified Substance Containers
□ **Odors**	□ Vehicle or Equipment Maintenance Areas
□ Oil Water Separators or Clarifiers	
□ Pesticide Mixing / Use Areas	□ Vehicle Wash Areas
□ Petroleum Pipelines	□ Waste Water Discharge
□ Construction Debris	□ Waste Water Treatment Systems
□ **Placed Fill / Soil Stockpiles / Imported Soils**	□ **Wells (Agricultural or Water Supply)**
	□ Wells (Monitoring or Dry)
□ Hazardous Materials	□ Wells (Natural Gas or Oil)

4.3.1 Above Ground Storage Tanks

A sign indicating diesel fuel was located on the building on the northeast corner of the Site. Adjacent to the building there was an above ground concrete vault that Ms. Zaruba indicated had previously held two above ground diesel tanks. No tanks were visible at the time of the site visit. No visible staining, odors, or other environmental concerns were

observed in connection with the concrete vault.

4.3.2 Drains, Sumps or Pits

A pit was found on the southwest corner of the warehouse/precast building that was full of water. It is possible that the pit could be part of a well, a septic tank or a sand oil separator. Ms. Zaruba indicated that she was not certain of the purpose of the pit, but it could have been a previous well or septic tank. No visible staining, odors, or other environmental concerns were observed in connection with the pit.

A large trough was located in the warehouse/precast building along the south side of the building. The trough was currently filled will soil, debris and drums. Ms. Zaruba indicated that the trough was previously used to hold the precast concrete forms during pouring. Ms. Zaruba also stated that once the trough was no longer used, the trough was filled in with soil and debris to prevent a fall hazard. The drums inside the trough were improperly disposed of with visible signs of staining in some of the surrounding soil and are of environmental concern.

Several precast concrete lids were located throughout the site. It is not known if these are all abandoned product from the previous precast business or if there is possibly a vault or pit associated with any of these. CTL inquired with Ms. Zaruba if there were any other pits or vaults onsite that were associated with these precast lids, but she was not aware of any. There are no environmental concerns with the storing of precast concrete products, but if it is determined that one of these is associated with an underground pit or vault, it may be of environmental concern.

4.3.3 Hazardous Material Storage and Use Areas

Hazardous materials, including primarily 55 gallon and 5 gallon drums, were found throughout the Site. Many of the 55 gallon and 5 gallon drums were in poor condition with rusting, holes, open topped, or stored on their sides. Hazardous materials with labeling included heavy motor oil, hydraulic oil, and deactivator. Visible staining was observed around the hazardous materials throughout the Site. Improperly stored hazardous materials and staining are of environmental concern.

4.3.4 Odors

Odors were observed in the main warehouse/precast building. The odors observed appeared to be petroleum based. Odors within the precast building are of environmental concern.

4.3.5 Soil Stockpiles

Several soil stockpiles were located throughout the site. Some of them were part of larger solid waste disposal piles that included hazardous material containers and some were just soil and gravel piles. The origin of these stockpiles is not known. The unknown soil origin and the comingling with solid waste and hazardous material containers are of environmental concern.

4.3.6 Solid Waste Disposal Areas

Solid waste disposal piles were located throughout the site. The solid waste included wood, pallets, concrete, hazardous material containers, precast concrete pieces, equipment, furniture, cardboard forms, tires, etc. The observable solid waste that is of environmental concern is the hazardous waste containers.

4.3.7 Staining

Stained soil was found in several areas of the site both adjacent to hazardous material containers, within the precast building, and on surrounding drive areas. Staining was also observed on the wooden wall of the precast building. The stained soil and stained walls are of environmental concern.

4.3.8 Stressed Vegetation

Stressed vegetation was found in several areas of the site adjacent to hazardous material containers. The stressed vegetation adjacent to hazardous material containers is of environmental concern.

4.3.9 Transformers

Several pole mounted transformers were found adjacent to the site. The transformers appeared to be in good repair with no sign of leaking or exterior damage. The transformers were not labeled to indicate that they were PCB free. No visible staining or stressed

vegetation was observed associated with the transformers. The pole mounted transformers are not of environmental concern.

4.3.10 Underground storage tanks

Ms. Zaruba indicated that she was aware of an underground storage tank on the east side of the warehouse/precast building. She believes that the tank had been previously removed, but is not certain. The presence of an underground storage tank on the Site is of environmental concern.

4.3.11 Water supply well

Ms. Zaruba indicated that she was aware that the Site previously had water supplied by a water well. She is not aware of the well location or if the water well is still in place. The presence of non-operational water well on the site is not of environmental concern.

4.4 Adjacent Land Use

General observations of properties adjacent to the Site were performed in conjunction with our on-site observations. Based on outdoor observations from nearby public streets, the surrounding areas are residential, commercial and educational facilities. We did not observe direct evidence of adverse environmental conditions on adjacent properties to the Site that appeared likely to impact the Site. Our observations are presented in Table 2.

Table 2
Adjacent Properties

Direction	General Observations
North	Residential
East	Residential
South	Residential
West	Office/Warehouse Commercial/Residential

5.0 HISTORICAL USE INFORMATION

5.1 Historical Aerial Photographs, Maps, and City Directories

Historical aerial photographs, topographic maps, Certified Sanborn® maps, and city directories of the Site and surrounding areas were reviewed to help establish the Site history (See Appendices C, D, E, and F). The years of the readily available photographs and maps are presented in Table 3. An interpretation of the photographs and maps is presented afterward. No former property uses were identified that would likely have obvious detrimental environmental impacts.

Table 3
Historical Aerial Photographs and Maps

Historical Source	Years Reviewed
Aerial Photographs	1949, 1955, 1966, 1971, 1978, 1983, 1988, 1993, 1999, 2005, 2006
Topographic Maps	1904, 1951, 1967, 1971, 1979
Certified Sanborn® Maps	1948
City Directories	None available

- 1949, 1955, 1966, 1971: The aerial photograph shows the Site as generally undeveloped/agricultural with possible trees or structures on the east side. Areas to the north and east are moderately developed with areas to the south and west as agricultural.
- 1978, 1983, 1988, 1993: The aerial photograph shows the Site as developed with a large building. Areas to the south of the Site now appear to be developed as residential with the area to the west of the Site now appear to be developed as commercial.
- 1999: The aerial photograph shows the Site as developed with a large building. New commercial development is seen to the southwest of the Site.
- 2005, 2006: The aerial photograph shows the Site as developed with a large building with lots of equipment or containers located on the Site. New commercial development is seen to the southwest and west of the Site.
- 1904: The topographic maps show no development in the area of the Site except for a few isolated offsite buildings.

- 1951, 1967, 1971: The topographic map shows no development on the Site, residential buildings are shown to the north and east of the Site.
- 1979: The topographic map shows one large building on the Site with additional residential development to the south of the Site.
- 1948: The Certified Sanborn map does not show the Site but it does show the surrounding area to the north and east. Surrounding areas shown appear to be primarily residential with the Erie High School located to the north.

5.2 County Assessor Records

CTL reviewed online public information records from the Weld County Assessor Office for the Site. The information we obtained is summarized in Table 4.

Table 4
Summary of County Assessor Records

Property Number	Assessor's Parcel Number	Parcel Listed Address	Parcel Listed Owner	Previous Listed Owners	Additional Information Obtained
1	146718300003	4060 1CR	INA Group LLC	Donald G. Zaruba, Weld County Treasurer	Approx acres = 2.5, 12,300 sf, 1973

5.3 50-Year Chain of Title and Environmental Lien Report

The Client did not provide a 50-year chain of title or environmental lien report for the Site.

6.0 RECORDS REVIEW

6.1 Geology and Subsurface Conditions

Geologic mapping indicates the surface soils over the Site consist of windblown clay, silt, sand and granules (Roger B. Colton, 1978).

6.2 Groundwater

It is our experience that the flow direction of shallow, unconfined ground water is generally controlled by topography. Based on topography, we estimate the general direction of ground water flow below the site is to the east toward Coal Creek and Cottonwood Extension Ditch. Topographic data suggests areas up-gradient of the site are generally to the northwest/west. Potential groundwater depths were determined by reviewing water wells from 0-1/8 mile from the Site with the Geocheck® report provided from EDR. The water levels for the surficial aquifer ranged from 10 to 35 feet from ground surface.

6.3 Physical Setting Analysis

The site slopes to the east. A hypothetical spill of a hazardous or petroleum substance on the Site would be expected to migrate east toward the Coal Creek and Cottonwood Extension Ditch. Potential upgradient sources are to the northwest/west of the Site.

7.0 REGULATORY AGENCY RECORDS

7.1 Regulatory Agency Database Report

On May 17, 2012 a database search was obtained from Environmental Data Resources, Inc. to gather historical environmental information about the Site and the surrounding area. The database report contains information obtained from a variety of environmental databases such as Superfund sites, leaking underground storage tank sites, hazardous waste generators, and landfills. We reviewed the report to help ascertain if incidents of potential environmental concern had been reported on the Site or within the nearby vicinity. The regulatory agency database report, which contains the record findings, a list of the regulatory agency databases reviewed, a description of the databases, and an area map indicating the location of the reported facilities relative to the Site is presented in Appendix G. A summary of the mapped regulatory agency database report findings, including mapped facilities within the ASTM search radius, is presented in Table 5. A summary of the significant on-site listings, adjacent parcel listings, and pertinent nearby reported hazardous material spills or releases are presented in Table 6.

Table 5
Database Summary

Database		Number of Sites within ASTM Search Radii
NPL	National Priorities List	0

NPL Delisted	Database of Delisted NPL sites	0
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System	0
NFRAP	Comprehensive Environmental Response Compensation and Liability Information System – Archived Sites	0
RCRA COR ACT	Resource Conservation and Recovery Information System Sites	0
RCRA TSD	RCRA - Hazardous waste treatment, storage, and disposal	0
RCRA GEN	RCRA – Generators	0
RCRA NLR	RCRA – No Longer Registered	0
Federal IC/EC	Brownfield Management System	0
RCRA – non gen	Non generators	0
ERNS	Emergency Response Notification System	0
Tribal Lands	Indian Land of the United States	0
State Spills 90	CDPHE – Environmental Release and Incident Database	0
State/Tribal SWL	CDPHE – Database of Active Solid Waste Management Facilities	0
SWRCY	Solid Waste Recycling Facility	0
State/Tribal LUST	COSTIS – Database of Leaking Underground Storage Tanks	2
State/Tribal TRUST	COSTIS – Database of Leaking Underground Storage Tanks	1
State/Tribal UST/AST	COSTIS – Database of Underground Storage Tanks	6
State/Tribal EC	CDPHE – Environmental Covenants	0
State/Tribal VCP	CDPHE – The Voluntary Clean-Up and Redevelopment Program	0
Meth Labs	Methamphetamine Laboratory	0
SWRCY	Local list of landfill/solid waste facilities	0
Receptors	Sensitive Receptors	0
NPDES	National Pollution Discharge Elimination System	0
FINDS	Facility Index System	1
TRIS	Toxic Release Inventory System	0
HMIRS	Hazardous Materials Incident Response System	0
NCDB	National Compliance Database System	0
PADS	Database of PCB handlers	0
AIRS	Aerometric Information Retrieval System	0
MINES	Mines Master Index File	2
DOCKET	Integrated Compliance Information System	0
Nuclear Permits	Permitted Nuclear Facilities	0
Releases		0
Federal Other		0

Table 6

Summary of Mapped Regulatory Agency Database Report Findings

SITE LISTING – 4060 County Line Road					
Database Map ID	Listing Address	Facility Name	Approximate Location Relative to the Site	Remarks	Potential For Site Impact
A1	4060 NE County Line Road	Erie Pre-Cast	N/A	FINDS – AIRS Airometric Information Retrieval System	LOW Based on location onsite, air emission impact and no reported violations.
A2	4060 NE County Line Road	Erie Pre-Cast Concrete Products	N/A	UST – Closed Status, 2 AST – Closed Status Additional files were reviewed from the COSTIS. Although the tanks both have closed status, there was no supporting documentation about closure activities that indicated if UST tank had been removed and if there had been sampling to determine potential contamination. Additional documentation as found on COSTIS are found in Appendix I.	MEDIUM Based on distance, onsite location, no confirmation of removal or sampling and no confirmed release.

NEARBY PARCELS					
Database Map ID	Listing Address	Facility Name	Approximate Location Relative to the Site	Remarks	Potential For Site Impact
3	1149 Telleen	Erie Maintenance Shop	1019 feet to the WSW	AST – Closed Status	LOW Based on distance, upgradient* location, and no confirmed release.
B4	4200 NE County Road	Conoco	1168 feet to the NNW	UST – 5 tanks, 2 closed, 3 open, no confirmed releases.	LOW Based on distance, crossgradient* location, and no confirmed release.

NEARBY PARCELS					
Database Map ID	Listing Address	Facility Name	Approximate Location Relative to the Site	Remarks	Potential For Site Impact
B5	4200 NE County Road	Sky Petroleum, LLC	1168 feet to the NNW	LUST, AIRS – Confirmed release 1994, closed status	MEDIUM-LOW Based on distance, crossgradient* location, and confirmed release.
B6	785 Chessman	Unknown	1178 feet to the N	UST – 4 tanks closed, no confirmed releases	LOW Based on distance, crossgradient* location, and no confirmed release.
7	12640 Jay Road	Triple M Masonry Inc	1219 feet to the NNW	UST –2 tanks closed, no confirmed release	LOW Based on distance, crossgradient* location, and no confirmed release.
C8	Boulder County	Bailey Concrete Prods	1282 feet to the NE	Non coal mine	LOW Based on distance, downgradient* location.
C9	Boulder County	C&M Sand and Gravel	1282 feet to the NE	Non coal mine	LOW Based on distance, downgradient* location.
10	235 Cheesman Street	Halls Grocery	1940 feet to the NE	LUST, LUST TRUST, UST – Confirmed release 2003, closed status	LOW Based on distance, downgradient* location, and confirmed release and cleanup.

***** With respect to the anticipated groundwater flow direction.
Note: The lateral dimensions of most leaking underground storage tank sites do not exceed more than a few hundred feet. (Lawrence Livermore National Laboratory, UCRL-AR-122207, dated November 16, 1995.)

In some cases, a listed facility cannot be mapped due to poor or inadequate address information, but instead may be listed only by city, county, zip code, or site name. The regulatory database report listed 32 such “unmappable” sites.

7.2 Weld County Public Health Department

The Weld County Department of Health and Environment was contacted regarding the Site. No response has been received as of the date of the report.

7.3 Fire Department

Mr. Mark Lawley, Fire Chief for the Mountain View Fire Protection District was contacted regarding the Site. Ms. Luann Penfold from the Mountain View Fire Protection District contacted CTL via phone on May 14, 2012. Ms. Penfold indicated that there were two events from the fire department at the Site. One event including an inspection of above ground gravity flow tanks on the site that stored fuel. Ms. Penfold did not remember where the tanks had been located, but she did remember that they did not have secondary containment. The second event was in response to an electrical fire on March 19, 2006. The building was vacant at the time of the response.

8.0 INTERVIEWS

8.1 Purchaser

During our study, an environmental questionnaire was provided to the potential purchaser, Mr. JD Parker of Skyline Builders. The information obtained from the questionnaire was used to gain general knowledge of past and current Site usage. Mr. JD Parker answered the following to the best of his knowledge. His complete responses are provided in Appendix H.

- He was unaware of environmental cleanup liens against the Site that had been filed or recorded under federal, tribal, state, or local law.
- He was not aware of Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the Site, have been filed, or recorded in a registry under federal, tribal, state or local law.
- He did not have specialized knowledge of the property or nearby properties.
- He said that the purchase price being paid for this property reasonably reflected the fair market value of the property.
- He was not aware of commonly known or reasonably ascertainable information about the Site that would help environmental professionals identify conditions

indicative of releases or threatened releases. Such information would include knowledge of past Site uses, chemical storage on the Site, hazardous materials spills, or previous environmental cleanups at the Site.

- He did not have knowledge or experience of obvious indicators of the presence or likely presence of contamination at the Site with the exception of barrels onsite.

Mr. JD Parker also completed the "Owner Questionnaire", so his responses are included as follows. He was not aware of any previous environmental investigations associated with the site. Mr. Parker indicated he had been associated with the Site for two months and that they had previously known the owner of the site and had purchased concrete tanks there. He states that the current owner is Mr. Tom Beckius since December 2011. Mr. Beckius acquired the property through tax liens and treasured deeds. The previous owner was indicated as Ms. Cheryl Zaruba from the 1980's to 2001. Ms. Zaruba's husband was the operator of the site till he passed away in 2002. He stated the current use of the Site was vacant/abandoned. Past uses of the site were Erie Precast, which made concrete tanks and manhole forms. He was not aware of any environmental concerns on the adjacent parcels. He was not aware if there were any hazardous waste spills, waste disposal areas, or other recognized environmental concerns related to the Site with the exception of above ground storage tanks, previous underground storage tanks on the Site, and the precast concrete plant onsite for 20 years. Mr. Parker believes that water is supplied to the site now by the public water system. He was not aware of any sewerage disposal system onsite. Mr. Parker indicates that there are various barrels onsite that have unknown contents. He is not aware that any chemical wastes have been discharged to the sanitary sewer. He is not aware of any leaks or spills of hazardous material on the property. He is not aware of any notice of environmental violation. Mr. Parker is not aware of any soils, debris or other materials placed on the property. Mr. Parker did indicate that other environmental information regarding the site included the use of form oil and machinery repair on the Site.

8.2 Site Manager and/or Occupants

Mr. Clark Foster, the current property owner representative, completed an environmental questionnaire prepared to comply with ASTM E 1527. He was not aware of any previous

environmental investigations associated with the site. Mr. Foster indicated he had been associated with the Site for approximately four months. The current owner was indicated as INA Group LLC since December 2011. The previous owners were not indicated. He stated the current use of the Site was vacant with a commercial building. He was not aware of any environmental concerns on the adjacent parcels. He was not aware if there were any hazardous waste spills, waste disposal areas, or other recognized environmental concerns related to the Site with the exception that the buyer has stated a presence of underground storage tanks. The seller (INA Group) has never been to the Site and has no actual knowledge of such. It is unknown how water is supplied to the site or of any sewerage disposal system. Mr. Foster indicates he is not aware of any hazardous substance used, handled or stored on the Site. He is not aware that any chemical wastes have been discharged to the sanitary sewer. He is not aware of any leaks or spill of hazardous material on the property. He is not aware of any notice of environmental violation. Mr. Foster is not aware of any soils, debris or other materials placed on the property.

Mr. Foster also completed the "Client Questionnaire", so his responses are included as follows.

- He was unaware of environmental cleanup liens against the Site that have been filed or recorded under federal, tribal, state, or local law.
- He was not aware of Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the Site or have been filed or recorded in a registry under federal, tribal, state or local law.
- He did not have specialized knowledge of the property or nearby properties.
- He said that the purchase price being paid for this property reasonably reflected the fair market value of the property.
- He was not aware of commonly known or reasonably ascertainable information about the Site that would help environmental professionals identify conditions indicative of releases or threatened releases. Such information would include

knowledge of past Site uses, chemical storage on the Site, hazardous materials spills, or previous environmental cleanups at the Site.

- He did not have knowledge or experience of obvious indicators of the presence or likely presence of contamination at the Site with the exception that the buyer has stated a former presence of an underground storage tank.

9.0 DEVIATIONS

9.1 Exceptions and Deletions

ASTM Standard E 1527-05 for Phase I Environmental Site Assessments, Section 8.3.2, states that "all obvious uses of the site shall be identified from the present, back to the site's obvious first developed use or back to 1940, whichever is earlier." The term "developed use" includes agricultural uses (i.e., cultivated land or agricultural crops) and placement of fill. In our opinion, livestock rangeland is not a developed use.

The site-specific historical documentation for this assessment went back to 1904 on the basis of topographic maps. Our research showed that the Site was undeveloped for the 1904 map; thus, the Site does meet the substantial requirements of the ASTM standard.

9.2 Data Gaps

A 50-year chain of title was not provided for the property and is considered a data gap. However, based on the information presented in this report, we do not believe that there are significant data gaps that would affect our ability to identify recognized environmental conditions associated with the Site.

10.0 LIMITATIONS

Tall vegetation, concrete products, solid waste and soil stockpiles obscured the ground on the day of the site visit and limited visibility of the ground surface conditions in some areas. These limitations may affect our ability to identify recognized environmental conditions associated with the Site.

This Phase I ESA was prepared in general accordance with ASTM Standard E 1527-05. There may be additional environmental issues present at the Site that are outside the scope of this practice including, but not limited to the following: asbestos, radon, lead in drinking water, cultural and historic resources, fungi, industrial hygiene, indoor air quality, health and safety, ecological resources, endangered species, biological or infectious agents and pathogens, wetlands, jurisdictional waters of the U.S., regulatory compliance, and high voltage power lines.

CTL|Thompson, Inc. has provided opinions based upon the condition of the Site on the day it was observed and upon a review of existing and reasonably ascertainable regulatory records and historical information. As with all site assessments, the extent of the information obtained is a function of client demands, time limitations, and budgetary constraints. Sampling and analysis would lead to a more reliable assessment of environmental conditions.

The opinions, conclusions, and recommendations of this report are not intended to be used or relied upon by a third party to this Agreement. With the written consent of our client, CTL may be available to contract with other parties to provide opinions or conduct additional environmental assessment services. Due to latent conditions and other contingencies that could become evident in the future, the current assessment does not result in any guarantee that the subject Site is free and clear of all hazardous materials. Should additional surface, subsurface, or chemical data become available, the conclusions and recommendations contained in this report shall not be considered valid unless the data is reviewed and the conclusions of this report are modified or approved in writing by our firm.

11.0 CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

11.1 Site Location and Historical Site Use

The Site is located at 4060 County Line Road in Erie, Colorado. Historic site use as a precast concrete plant with use of form oil and other chemicals used onsite in a warehouse with a dirt floor is of environmental concern.

Based on aerial photos, topographic maps, county assessor data, and interviews, the Site has been developed as the current warehouse precast buildings with known previous uses as undeveloped/agricultural.

11.2 Site Visit

The Site is occupied by two buildings, work, and storage and drive areas. Items identified on-site that were not considered to be of environmental concern included above ground storage tanks, transformers, water wells, abandoned concrete products, and pit on the southwest corner of building, These items appeared to be in good working order with no staining, leaking, odors or stressed vegetation.

Items identified on-site that were considered to be of environmental concern include the following:

- Hazardous materials were being or had been stored on the site in 55 gallon or 5 gallon drums. The drums contained motor oil, hydraulic oil, deactivator and other unknown contents. All of the drums were improperly stored directly on the soil and often exposed to the elements. Many drums were damaged and leaking with visible signs of soil staining. The potential contaminated soil and groundwater from leaking or spillage from drums is of environmental concern.
- Odors of petroleum products were observed upon entering the precast building. Odors indicated the potential presence of petroleum products on either the building materials or soil. The potential contaminated soil, groundwater and building materials are of environmental concern.
- Soil stockpiles were located throughout the Site. The origin of the stockpiles is unknown and they were often mixed with solid waste containing hazardous material containers. The potential contaminated soil in the stockpiles is of environmental concern.
- Solid waste piles were located throughout the Site and contained hazardous material containers. The potential contaminated soil and groundwater from leaking hazardous material containers in the solid waste piles is of environmental concern.
- Stained soil and stressed vegetation found throughout the Site indicates improper use of hazardous materials or improper storage of hazardous material containers due to leaking, spilling or overspraying. The potential contaminated soil and groundwater from improper use of hazardous materials or improper storage of hazardous material containers is of environmental concern.
- A potential previous or existing underground storage tank on the Site is of concern

for both past and or current releases of petroleum containing products. The tank was registered with the Colorado Division of Oil and Public Safety and had a status of permanently closed. After reviewing the COSTIS records, documentation was not found that indicated the closure procedures for the underground storage tank including if the tank had been removed and if confirmation sampling had been performed on the Site. The potential contaminated soil and groundwater from the previous or existing underground storage tank is of environmental concern.

11.3 Nearby Environmental Concerns

The Site is located in an area that is a combination of commercial, and residential. Commercial businesses of concern were duplicated in the next section on the environmental database. Other adjacent concerns were not identified.

- An environmental database search was performed to review information obtained from a variety of environmental databases (i.e., Superfund sites, leaking underground storage tank sites, hazardous waste generators, landfills, and others). The database helped to ascertain if incidents of potential environmental concern (e.g., spills, permits, registrations, hazardous waste incidents, historical usage) have been reported on the Site or within the nearby Site vicinity. The only facility identified to be of environmental concern was the subject Site and the record of an underground storage tank on the Site. The tank was registered with the Colorado Division of Oil and Public Safety and had a status of permanently closed. After reviewing the COSTIS records, documentation was not found that indicated the closure procedures for the underground storage tank including if the tank had been removed and confirmation sampling on the Site. The potential contaminated soil and groundwater from the previous or existing underground storage tank is of environmental concern.

Other facilities identified in the database were considered to be cross-gradient, down-gradient, closed status, no confirmed releases or too far from the Site to be of environmental concern.

11.4 General Conclusions

We have performed this Phase I ESA in general conformance with the scope and limitations of ASTM Practice E 1527-05. Exceptions to, or deletions from, this practice are described in Section 9.0 of this report, and limiting conditions are described under Sections 4.1 and 10.0. CTL's assessment has revealed no evidence of Recognized Environmental Conditions (RECs) in connection with the Site with the exception of the following:

1. The potential contaminated soil and groundwater from leaking or spillage from drums is a Recognized Environmental Condition (REC).
2. The potential contaminated soil, groundwater and building materials within the warehouse are of environmental concern and are Recognized Environmental Condition (REC).
3. The potential contaminated soil in the stockpiles with hazardous materials containers
   is a Recognized Environmental Condition (REC).
4. The potential contaminated soil and groundwater from improper use of hazardous materials or improper storage of hazardous material containers is Recognized Environmental Condition (REC).
5. The potential for soil and groundwater contamination from potential previous or existing underground storage tank on the Site is a Recognized Environmental Condition (REC).

11.5 Recommendations

CTL indentifies the following recommendations:

- Any soil and/or groundwater contamination related to the identified RECs can only be determined by performing a subsurface investigation. A subsurface investigation should be performed prior to the property transfer to investigation possible site contamination. Specific recommendations for the Phase II work plan will be provided in a separate letter.
- Any drums, hazardous material containers, concrete products, tires or other solid waste debris should be removed from the Site and property disposed of according to state and local regulations prior to property transfer.

After acquiring the property, to maintain the liability protections, landowners must comply with "continuing obligations" during their property ownership. The continuing obligations include:

1) Provide all legally required notices with respect to the discovery or release of a hazardous substance;

2) Exercise appropriate care with respect to the hazardous substances by taking reasonable steps to stop or prevent continuing or threatened future releases and exposures, and prevent or limit human and environmental exposure to previous releases;

3) Provide full cooperation, assistance, and access to persons authorized to conduct response actions or natural resource restoration;

4) Comply with land use restrictions and not impede the effectiveness of institutional controls; and

5) Comply with information requests and subpoenas.

11.6 Regulatory Compliance Issues

Several items were identified that although are not considered recognized environmental conditions from impacting the Site, these items are considered an environmental business risk from an operational standpoint:

According to the Colorado Department of Public Health and Environment (CDPHE) Hazardous Materials and Waste Management Division, any concentration of asbestos in soils is regulated by the CDPHE. In 6 CCR 1007-2 Part 1 *Regulations Pertaining to Solid Waste Sites and Facilities*, the CDPHE defines the procedures required for management of asbestos contaminated soils. If asbestos or asbestos materials are discovered in soils at any detectable concentration, the CPDHE would be required to be notified and an asbestos management plan be implemented before disturbing the soils on the site.

The presence of asbestos and lead-based paint can be an environmental risk with the potential for extensive costs during renovation, remodeling, or demolition of buildings. Lead-based paint is of concern in pre-1978 buildings. Construction and renovation work for buildings containing asbestos and lead-based paint may be subject to the Federal and State regulations. The cost of asbestos and lead-based paint management or abatement should be considered prior to property transfer. Consequently, CTL recommends performing a lead-based paint and asbestos survey prior to purchase of the buildings.

12.0 QUALIFICATIONS

This Phase I ESA report was prepared and reviewed by licensed Professional Engineers (PE) registered in the State of Colorado. The resumes of the individuals conducting this Phase I ESA are included in Appendix J.

Ms. Chalona declares that, to the best of her professional knowledge and belief, she meets the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject Site. We have developed and performed the appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

We believe that this investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

CTL|THOMPSON, INC.

COLORADO REGISTERED MELISSA L. CHALONA 34745 PROFESSIONAL ENGINEER 6/7/12

Melissa L. Chalona, PE, LEED AP
Environmental Department Manager

Reviewed by:

Matthew L. Wardlow, PE
Quality Assurance Reviewer

Addressee (3 copies)

REFERENCES

JD Parker, Director of Investments, Skyline Builders, Questionnaire, May 3, 2012.

Environmental Data Resources, Inc. Information, *Aerial Photo Package*, dated May 1, 2012.

Environmental Data Resources, Inc. Information, *City Directories,* dated May 2, 2012.

Environmental Data Resources, Inc. Information, *Certified Sanborn® Maps*, dated May 1, 2012.

Environmental Data Resources, Inc. Information, *Environmental Database Search*, dated May 17, 2012.

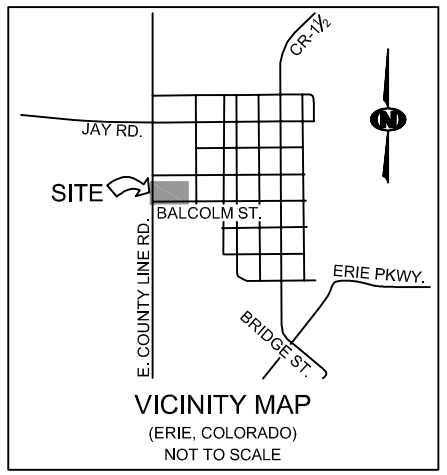
Environmental Data Resources, Inc. Information, *Topographical Map Package,* dated May 1, 2012.

Foster, Clark, Owner, and Questionnaire May 2, 2012.

Weld County Assessor Office, *Public Record Property Information*, viewed May 14, 2012.

LEGEND:

1. 55 GALLON DRUM HYDRAULIC OIL (HALF FULL)
2. PRECAST WALLS
3. PRECAST LIDS/RINGS
4. SOIL PILES
5. STAINING/ASPHALT DEBRIS
6. VAULT
7. MOTOR OIL 55 GALLON DRUM (¾ FULL)
8. ODORS
9. ENGINE OIL 55 GALLON (FULL)
10. POLY 55 GALLON DRUM (FULL)
11. 55 GALLON DRUM
12. SOIL STAINING
13. LEAKING 5 GALLON DRUM WITH STAINING
14. DAMAGED 5 GALLON DRUM
15. CONCRETE LID
16. TIRES
17. POLE MOUNTED TRANSFORMER
18. 4 DRUMS (3 EMPTY; ONE FULL) WITH STAINING
19. 8-55 GALLON DRUMS (PARTIALLY FULL)
20. 5 GALLON DRUMS (DEACTIVATOR)
21. 4-55 GALLON DRUMS (PARTIALLY FULL)
22. DAMAGED CONTAINER
23. STRESSED VEGETATION
24. SOLID WASTE DISPOSAL AREA
25. 5-55 GALLON DRUMS (EMPTY; NO STAIN)
26. 55 GALLON DRUM (FULL)
27. 55 GALLON POLY DRUM (FULL)

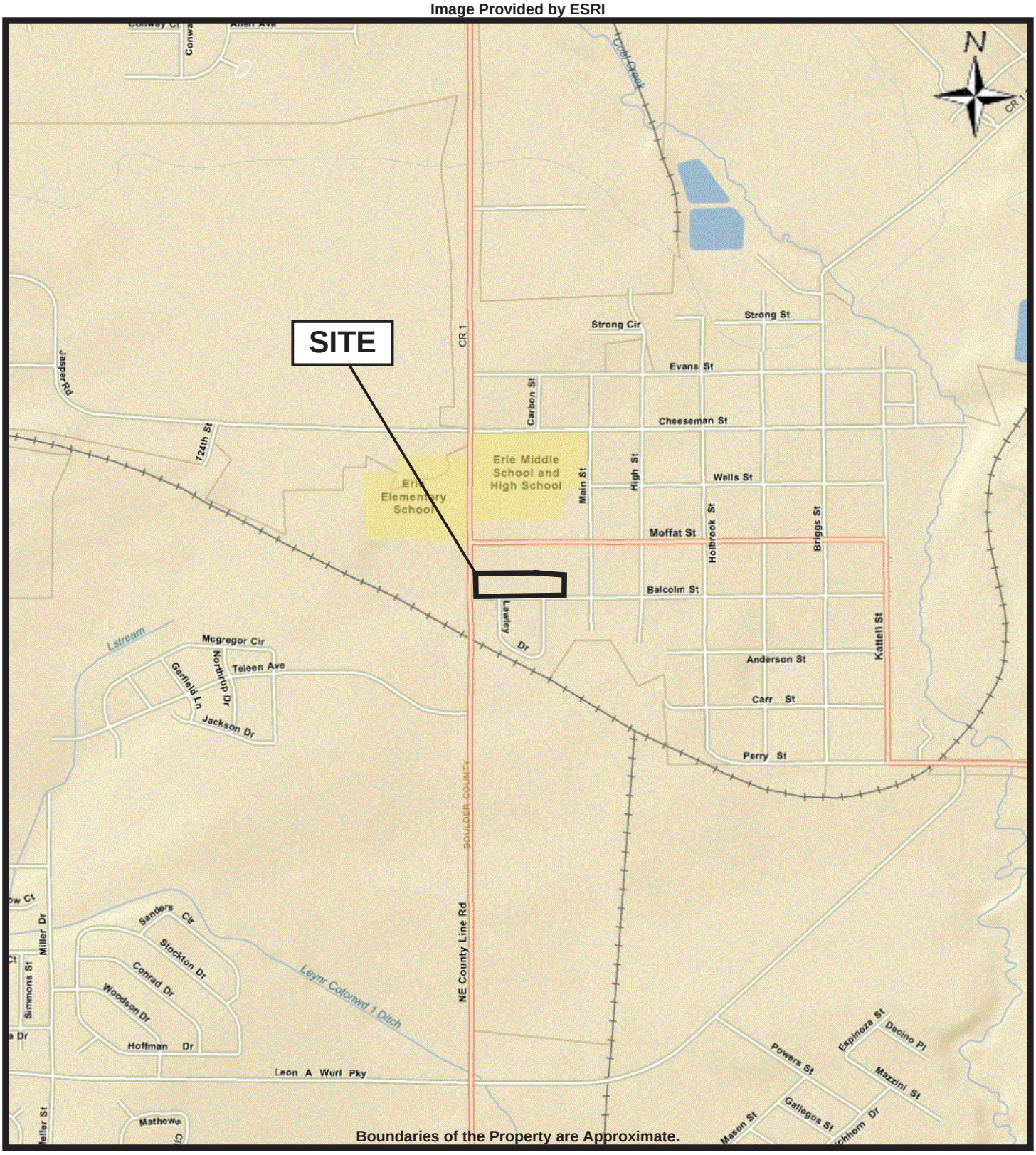


VICINITY MAP
(ERIE, COLORADO)
NOT TO SCALE

Figure 1
Phase I ESA
4060 County Line Road
FC05859.000

APPENDIX A
SITE LOCATION MAPS

Image Provided by ESRI



Boundaries of the Property are Approximate.

CTL | THOMPSON

SITE LOCATION - STREET MAP

4060 E County Line Road
Erie, CO 80516

PREPARED FOR: Skyline Builders
PROJ. MGR: M. Chalona
DRAWN BY: G. Doyle
DATE: 05/01/2012
PROJ. #: FC05859.000

Image Provided by ESRI

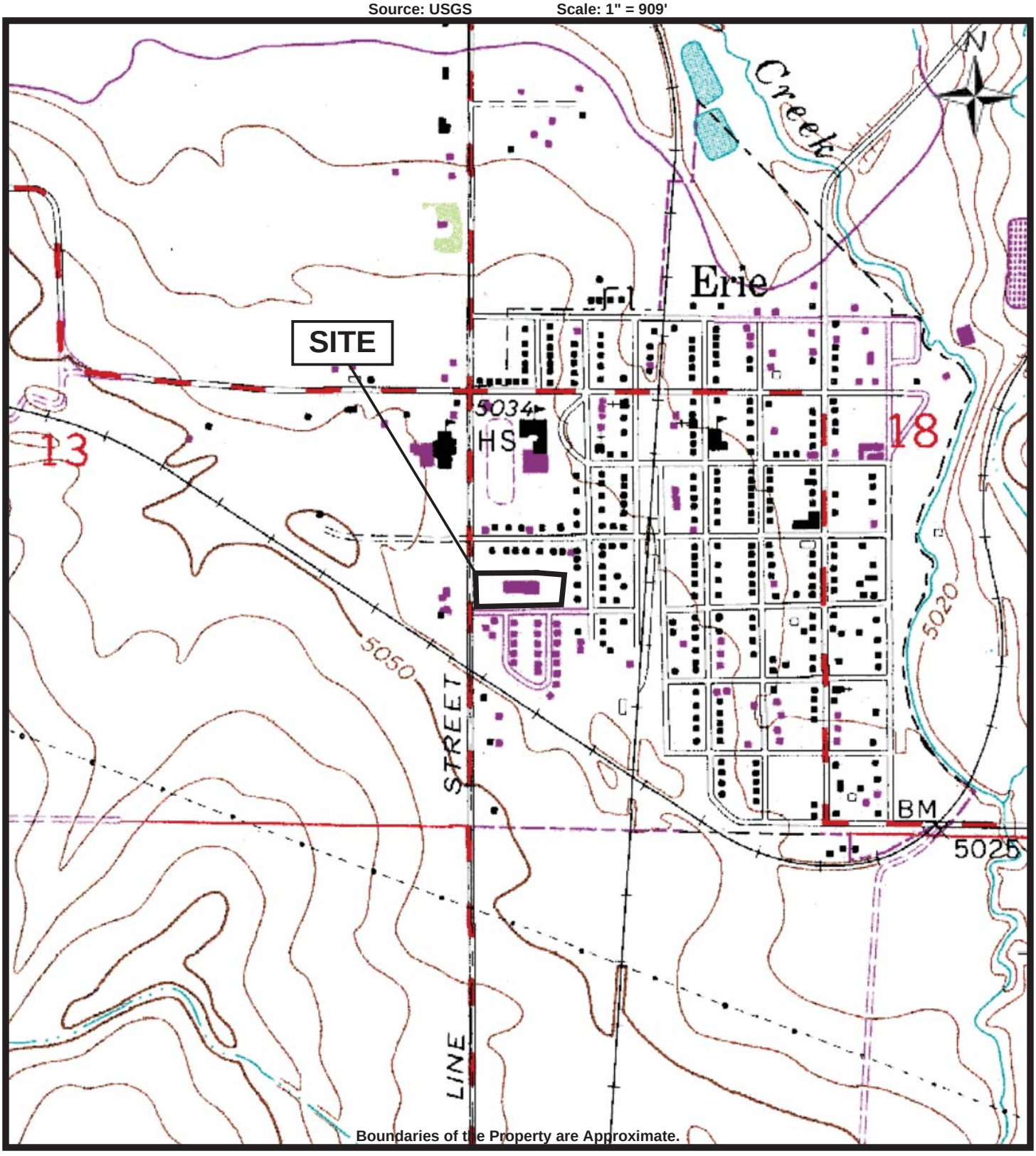
CTL | THOMPSON

SITE LOCATION - AERIAL PHOTOGRAPH

4060 E County Line Road
Erie, CO 80516

PREPARED FOR: Skyline Builders
PROJ. MGR: M. Chalona **DATE: 05/01/2012**
DRAWN BY: G. Doyle **PROJ. #: FC05859.000**

Image Provided by Environmental Data Resources, Inc.
Source: USGS Scale: 1" = 909'



Boundaries of the Property are Approximate.

CTL | THOMPSON

SITE LOCATION - TOPOGRAPHIC MAP

4060 E County Line Road
Erie, CO 80516

PREPARED FOR: Skyline Builders
PROJ. MGR: M. Chalona **DATE: 05/01/2012**
DRAWN BY: G. Doyle **PROJ. #: FC05859.000**

APPENDIX B

SITE PHOTOGRAPHS

Precast building and Site

Typical abandoned 55 drum onsite

Typical abandoned precast products onsite

View of southwest corner of Site

CTL|THOMPSON

Site Photographs – 4060 County Line Road

Erie, Colorado 80516
May 11, 2012

View of northwest corner of Site

Soil stockpiles at southwest corner of Site

Sump on southwest corner of precast building

Interior of precast building with concrete trough along south side

Interior of precast building with soil staining

Precast building typical office

Staining on precast wall

Typical contents of trough in precast building

Precast typical office on southwest side of building

Typical abandoned containers in precast building

Typical abandoned drum in precast building

Soil and debris pile to east of precast building

Stained soil around abandoned container

Typical abandoned precast vault lids

Typical solid waste and drums north side of precast building

Typical abandoned drum with labeling

Concrete vault and storage building on northeast property corner

Diesel sign on storage building exterior

Storage building interior

Abandoned equipment on east side of Site

Solid waste piles on east side of Site

Solid waste piles east side of Site

Concrete drive in storage and platform

Electrical chases

Adjacent property to north

Adjacent property to east

Adjacent properties to south

Adjacent property to west

APPENDIX C
AERIAL PHOTOGRAPHS

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.5
May 01, 2012

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography May 01, 2012

Target Property:

4060 E County Line Road

Erie, CO 80516

Year	***Scale***	***Details***	***Source***
1949	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Date: July 13, 1949	EDR
1955	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Date: September 04, 1955	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Date: October 04, 1966	EDR
1971	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: August 06, 1971	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: July 08, 1978	EDR
1983	Aerial Photograph. Scale: 1"=1000'	Panel #: 40105-A1, Erie, CO;/Flight Date: October 05, 1983	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: July 10, 1988	EDR
1993	Aerial Photograph. Scale: 1"=750'	Panel #: 40105-A1, Erie, CO;/Flight Date: June 30, 1993	EDR
1999	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Composite DOQQ - acquisition dates: October 04, 1999	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40105-A1, Erie, CO;/Flight Year: 2006	EDR

INQUIRY #: 3313445.5
YEAR: 1949
= 500'
N

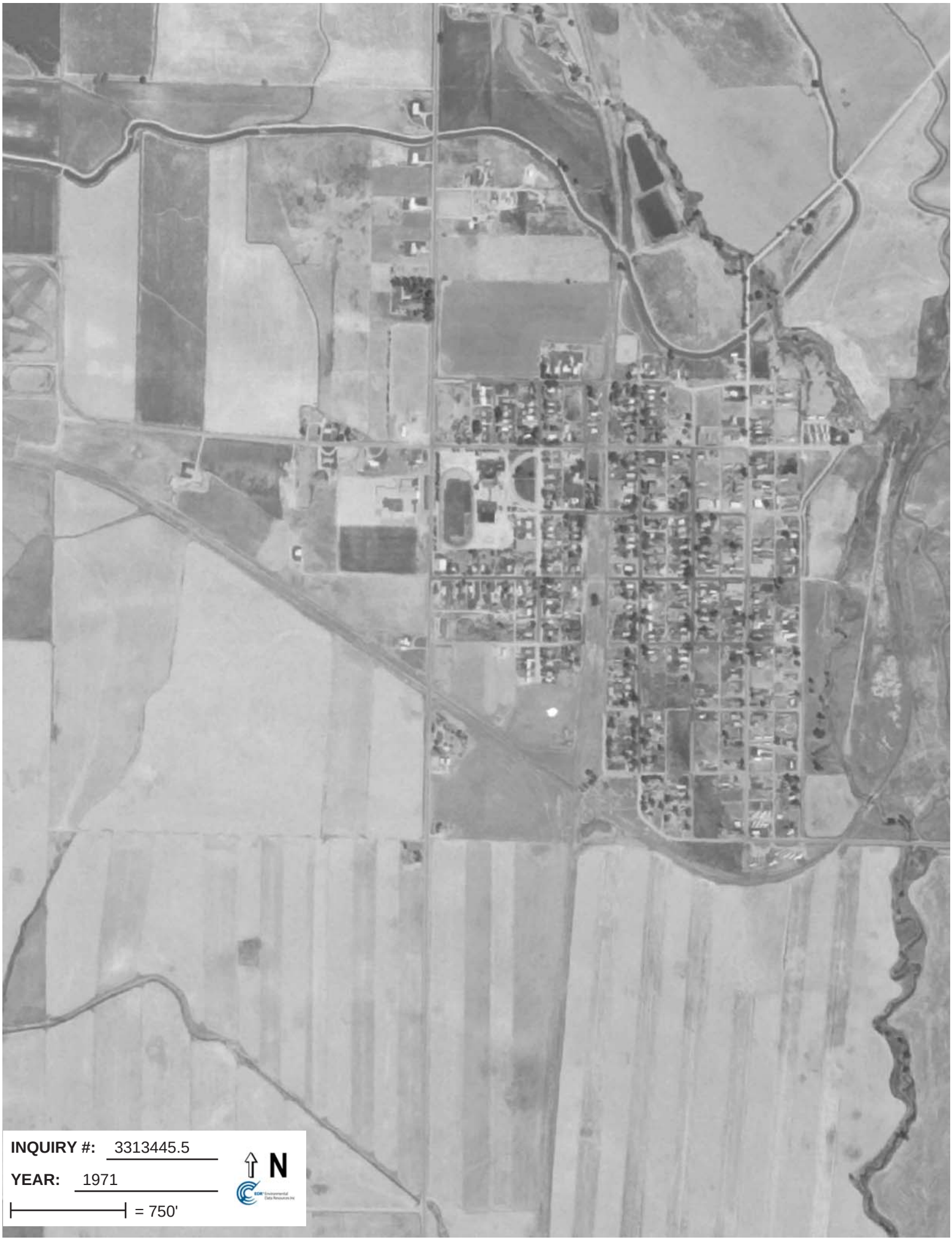
INQUIRY #: 3313445.5

YEAR: 1955

= 500'

N

INQUIRY #: 3313445.5
YEAR: 1966
= 500'
N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= 750'
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INQUIRY #: 3313445.5
YEAR: 1978
= 750'
N

INQUIRY #: 3313445.5
YEAR: 1983
= 1000'
N

INQUIRY #: 3313445.5
YEAR: 1988
= 750'
N

INQUIRY #: 3313445.5
YEAR: 1993
= 750'
N

INQUIRY #: 3313445.5

YEAR: 1999

= 500'

N

INQUIRY #: 3313445.5
YEAR: 2005
= 500'
N

INQUIRY #: 3313445.5
YEAR: 2006
= 500'
N

APPENDIX D
SITE TOPOGRAPHIC MAPS

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.4
May 01, 2012

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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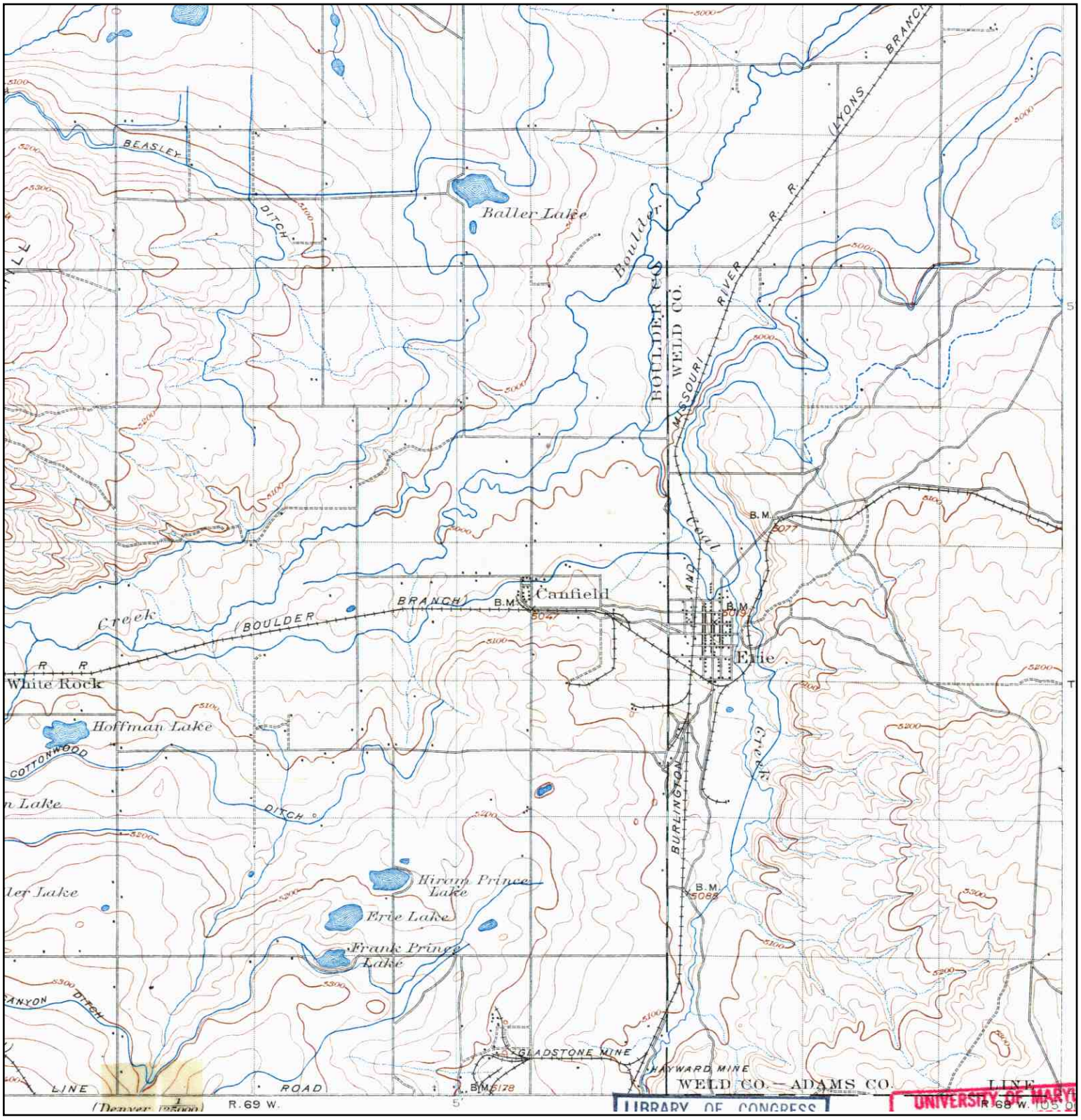
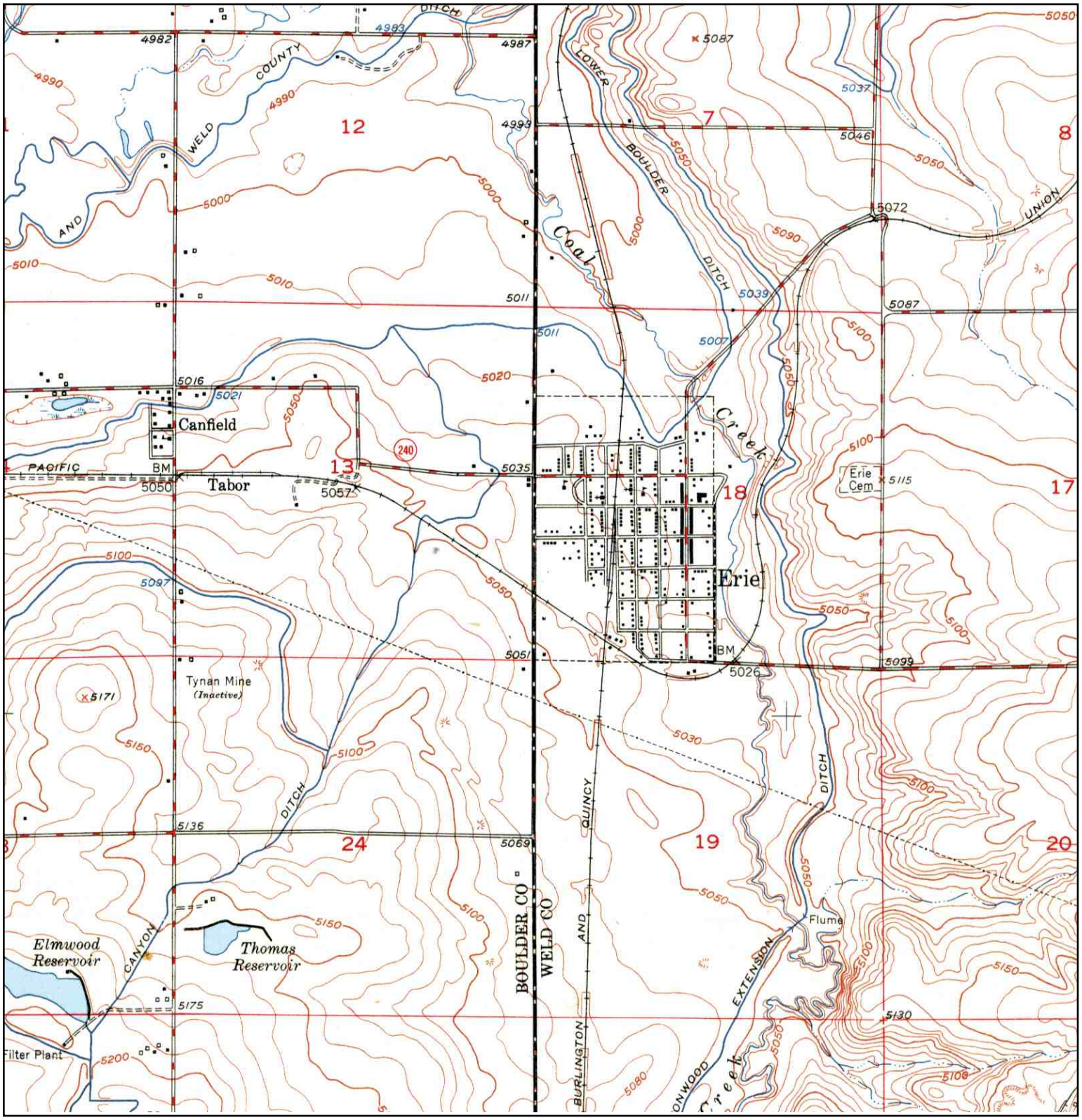
Historical Topographic Map



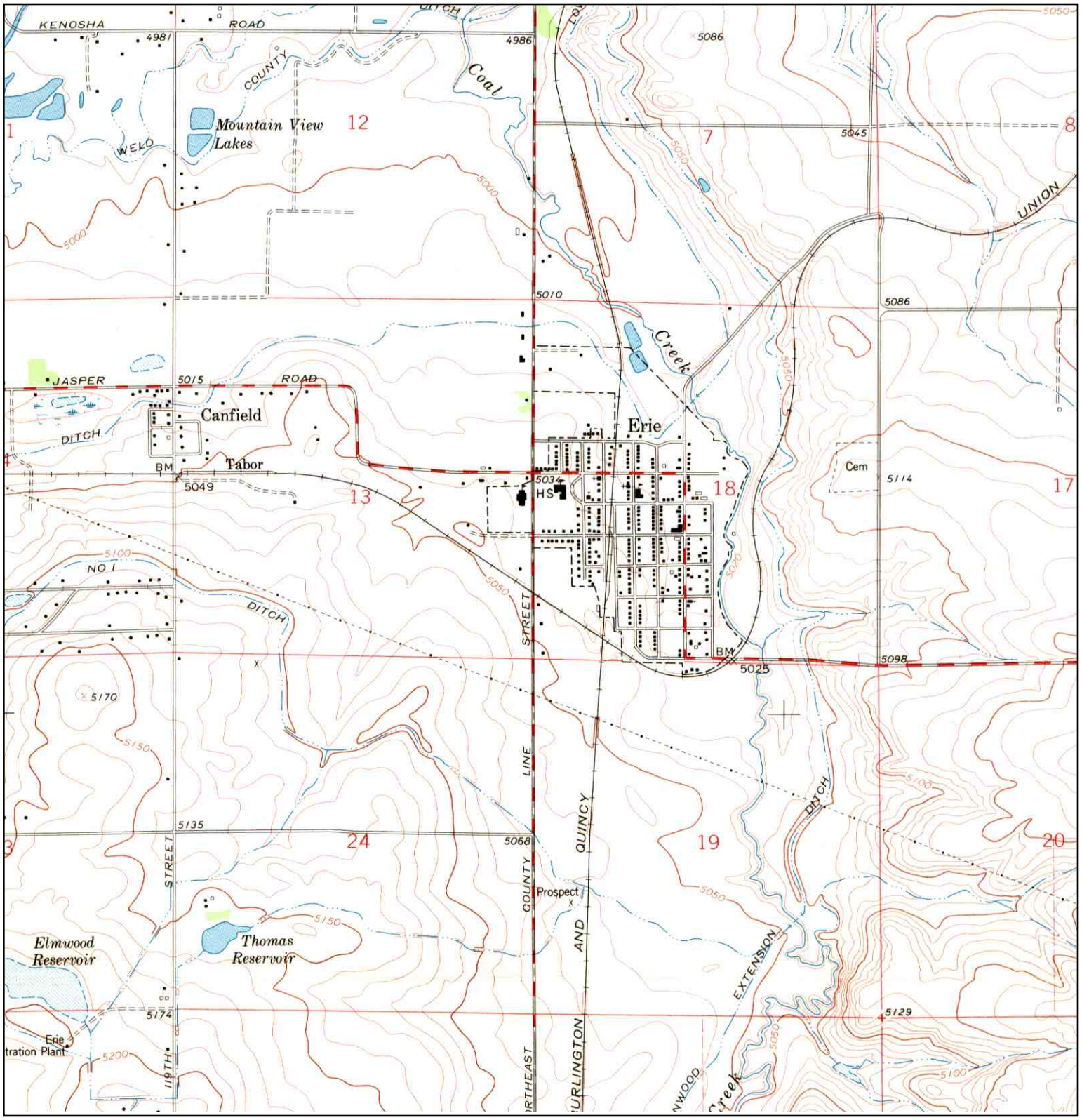
N	TARGET QUAD NAME: NIWOT MAP YEAR: 1904 SERIES: 15 SCALE: 1:62500	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

Historical Topographic Map



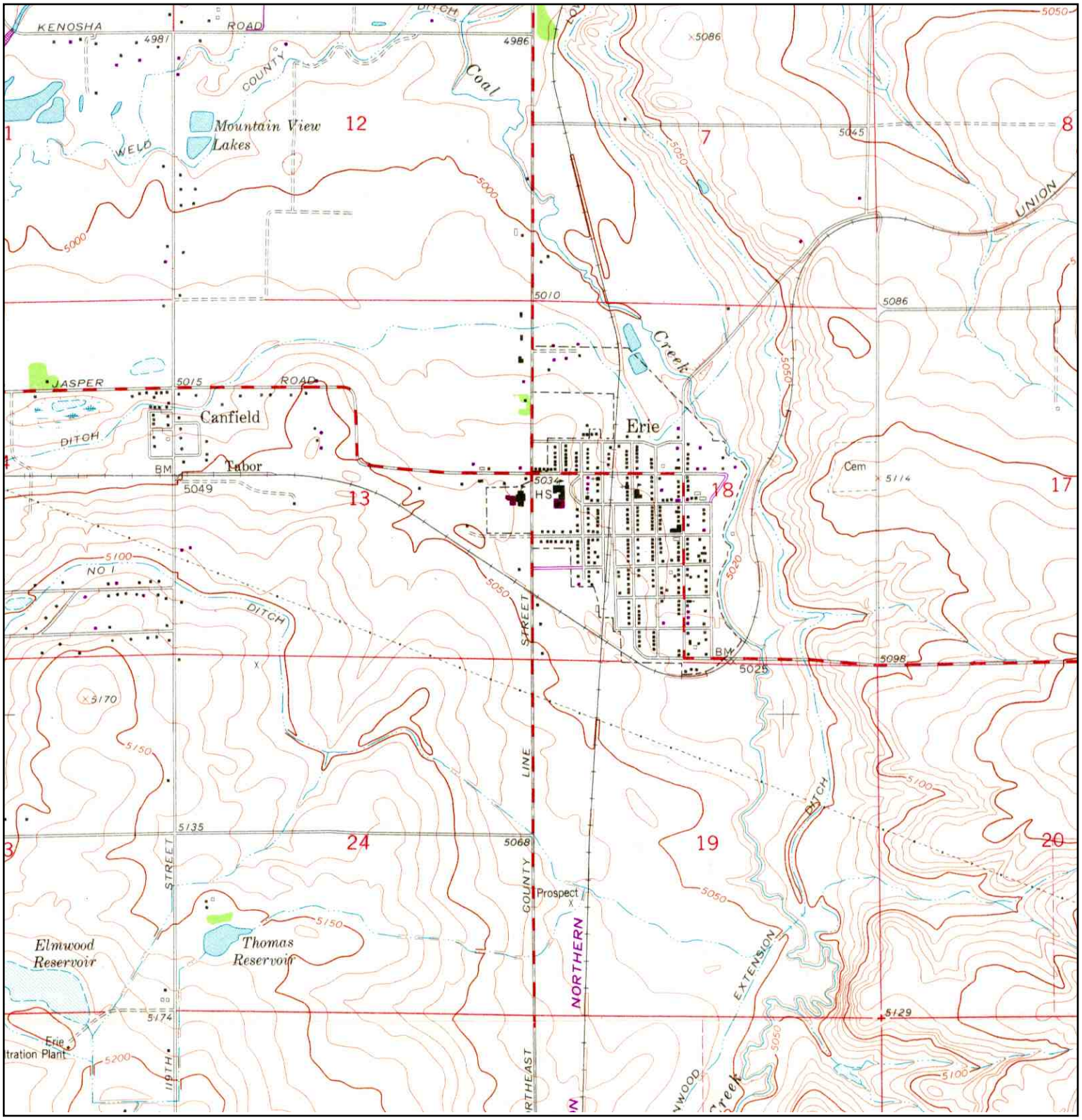
N	TARGET QUAD NAME: ERIE MAP YEAR: 1951 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

Historical Topographic Map



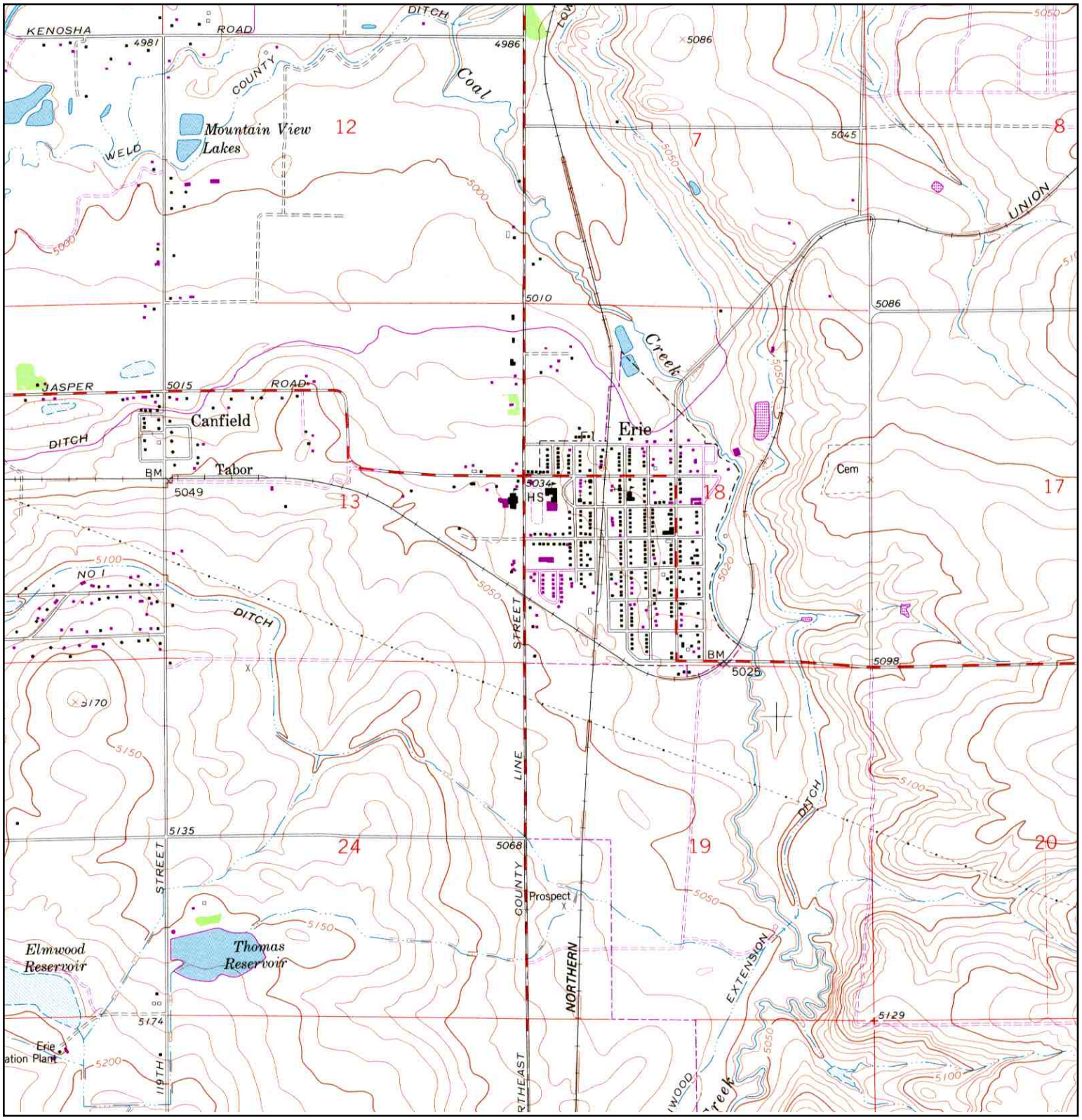
N	TARGET QUAD			
	NAME:	ERIE	SITE NAME: 4060 E County Line Road	CLIENT: CTL Thompson, Inc.
	MAP YEAR:	1967	ADDRESS: 4060 E County Line Road	CONTACT: Melissa Chalona
			Erie, CO 80516	INQUIRY#: 3313445.4
	SERIES:	7.5	LAT/LONG: 40.048 / -105.0544	RESEARCH DATE: 05/01/2012
	SCALE:	1:24000		

Historical Topographic Map



N	TARGET QUAD NAME: ERIE MAP YEAR: 1971 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

Historical Topographic Map



N	TARGET QUAD NAME: ERIE MAP YEAR: 1979 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie, CO 80516 LAT/LONG: 40.048 / -105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY#: 3313445.4 RESEARCH DATE: 05/01/2012

APPENDIX E

CITY DIRECTORIES

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.6
May 02, 2012

The EDR-City Directory Image Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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APPENDIX F

CERTIFIED SANBORN MAP REPORT

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.3
May 01, 2012

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

5/01/12

Site Name:
4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

EDR Inquiry # 3313445.3

Client Name:
CTL Thompson, Inc.
351 Linden St. Suite 140
Fort Collins, CO 80524

Contact: Melissa Chalona

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by CTL Thompson, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 4060 E County Line Road
Address: 4060 E County Line Road
City, State, Zip: Erie, CO 80516
Cross Street:
P.O. # FC05859
Project: 4060 E County Line Road, Erie
Certification # BBC0-420D-80DF

Maps Provided:

1948

Sanborn® Library search results
Certification # BBC0-420D-80DF

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

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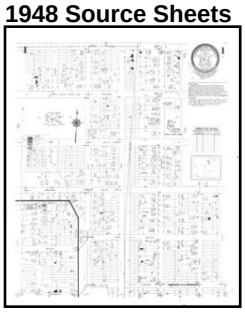
1948 Source Sheets



Volume 1, Sheet 1

1948 Certified Sanborn Map

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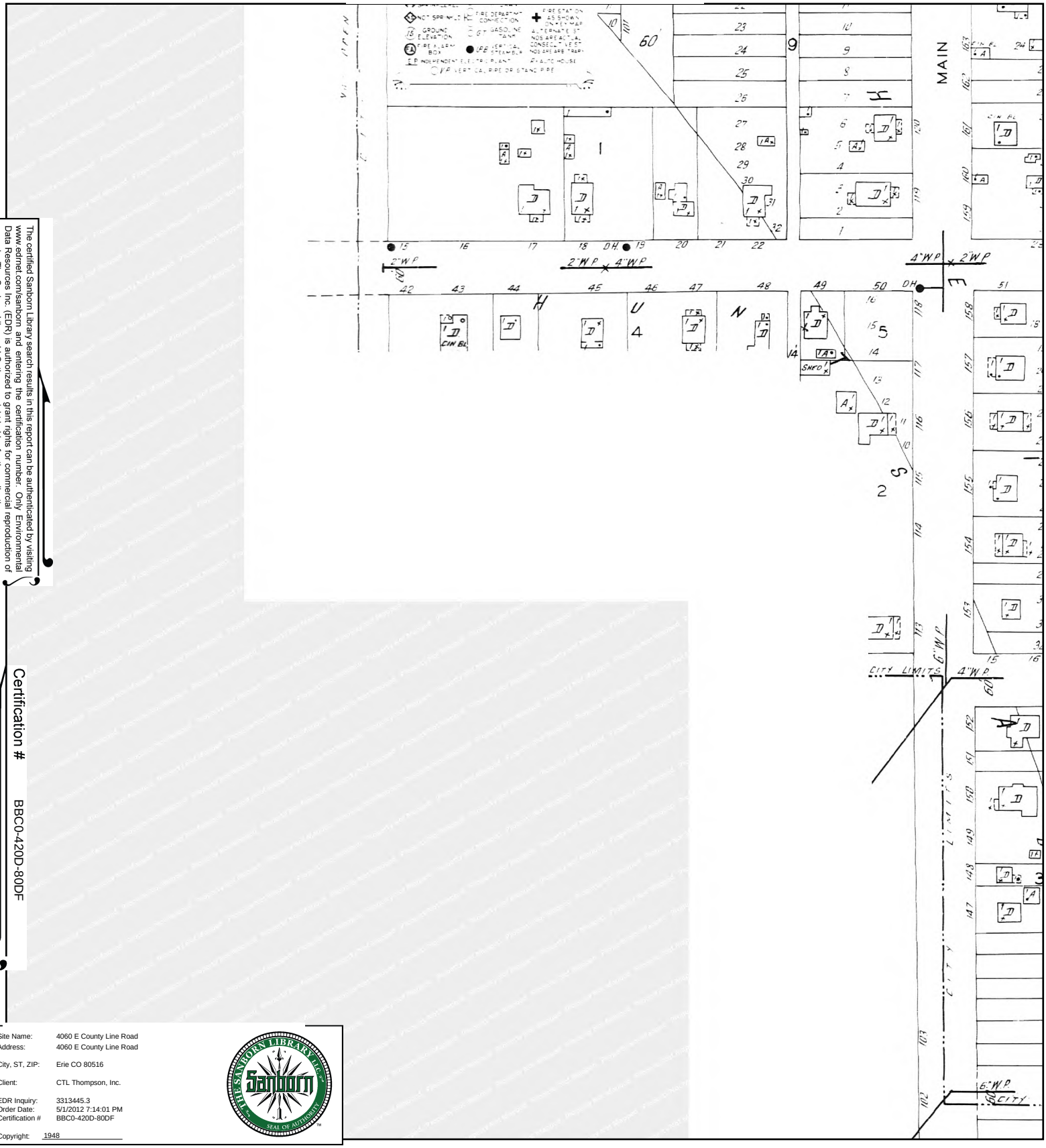
Certification # BBC0-420D-80DF

Site Name:	4060 E County Line Road
Address:	4060 E County Line Road
City, ST, ZIP:	Erie CO 80516
Client:	CTL Thompson, Inc.
EDR Inquiry:	3313445.3
Order Date:	5/1/2012 7:14:01 PM
Certification #	BBC0-420D-80DF
Copyright:	1948

1948 Certified Sanborn Map



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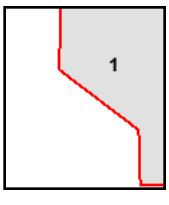
Certification # BBC0-420D-80DF

Site Name: 4060 E County Line Road
Address: 4060 E County Line Road
City, ST, ZIP: Erie CO 80516
Client: CTL Thompson, Inc.
EDR Inquiry: 3313445.3
Order Date: 5/1/2012 7:14:01 PM
Certification # BBC0-420D-80DF
Copyright: 1948

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 1

0 Feet 150 300 600

N

APPENDIX G

REGULATORY AGENCY DATABASE REPORT

4060 E County Line Road
4060 E County Line Road
Erie, CO 80516

Inquiry Number: 3313445.2s
May 17, 2012

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4060 E COUNTY LINE ROAD
ERIE, CO 80516

COORDINATES

Latitude (North):	40.0480000 - 40° 2' 52.80''
Longitude (West):	105.0544000 - 105° 3' 15.84''
Universal Tranverse Mercator:	Zone 13
UTM X (Meters):	495359.6
UTM Y (Meters):	4432876.0
Elevation:	5040 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40105-A1 ERIE, CO
Most Recent Revision:	1979

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2009
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ERIE PRE-CAST 4060 NE COUNTY LINE RD ERIE, CO 80516	FINDS	N/A
ERIE PRECAST CONCRETE PRODUCTS 4060 WELD CR 1 ERIE, CO 80516	UST AST	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Sites & Facilities

State and tribal leaking storage tank lists

LAST ---------- Leaking Aboveground Storage Tank Listing
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL ---------- Environmental Real Covenants List

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup & Redevelopment Act Application Tracking Report

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
SWRCY ---------- Registered Recyclers Listing
HIST LF ---------- Historical Landfill List
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
CDL ---------- Meth Lab Locations
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information
LUCIS ---------- Land Use Control Information System

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CO ERNS ---------- Spills Database

Other Ascertainable Records

RCRA-NonGen ---------- RCRA - Non Generators

DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
METHANE SITE	Methane Site Investigations - Jefferson County 1980
Methane Investigation	Methane Gas & Swamp Findings
DRYCLEANERS	Drycleaner Facilities
NPDES	Permitted Facility Listing
AIRS	Permitted Facility & Emissions Listing
UMTRA	Uranium Mill Tailings Sites
ASBESTOS	Asbestos Abatement & Demolition Projects
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE	Financial Assurance Information Listing
COAL ASH DOE	Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 03/27/2012 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SKY PETROLEUM, LLC #06352	***4200 NE COUNTY LINE RD***	***NNW 1/8 - 1/4 (0.221 mi.)***	***B5***	***10***
Status: Closed				
HALLS GROCERY	***235 CHEESMAN ST***	***NE 1/4 - 1/2 (0.367 mi.)***	***10***	***13***
Status: Closed				
Status: State Lead				

LUST TRUST: Reimbursement application package. The 1989 Colorado General Assembly established Colorado's Petroleum Storage Tank Fund. The Fund reimburses eligible applicants for allowable costs incurred in cleaning up petroleum contamination from underground and aboveground petroleum storage tanks, as well as for third-party liability expenses. Remediation of contamination caused by railroad or aircraft fuel is not eligible for reimbursement. The Fund satisfies federal Environmental Protection Agency financial assurance requirements. Monies in the Fund come from various sources, predominantly the state environmental surcharge imposed on all petroleum products except railroad or aircraft fuel.

A review of the LUST TRUST list, as provided by EDR, and dated 03/19/2012 has revealed that there is 1 LUST TRUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HALLS GROCERY	***235 CHEESMAN ST***	***NE 1/4 - 1/2 (0.367 mi.)***	***10***	***13***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The source is the State Oil Inspector's Office's Tank List.

A review of the UST list, as provided by EDR, and dated 03/27/2012 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRIPLE M MASONRY INC	12640 JAY RD	NNW 1/8 - 1/4 (0.231 mi.)	7	12

Lower Elevation	Address	Direction / Distance	Map ID	Page
CONOCO #06352	4200 NE COUNTY LINE RD	NNW 1/8 - 1/4 (0.221 mi.)	B4	9
UNKNOWN	785 CHEESMAN	N 1/8 - 1/4 (0.223 mi.)	B6	11

AST: The Aboveground Storage Tank database contains registered ASTs. The source is the State Oil Inspector's Office's Tank List.

A review of the AST list, as provided by EDR, and dated 03/27/2012 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ERIE MAINTENANCE SHOP	1149 TELLEEN	WSW 1/8 - 1/4 (0.193 mi.)	3	8

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 08/18/2011 has revealed that there are 2 MINES sites within approximately 0.25 miles of the target property.

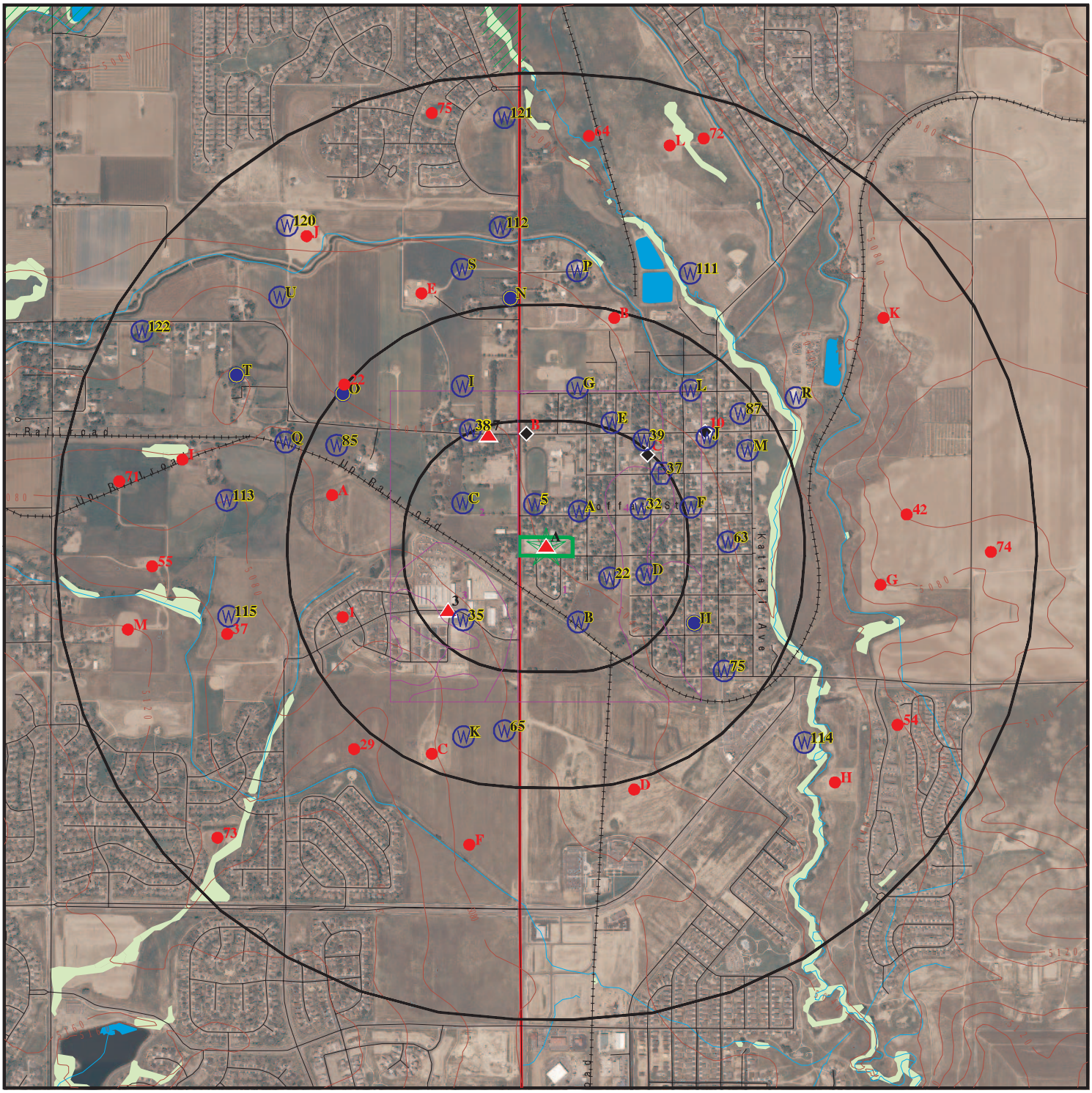
Lower Elevation	Address	Direction / Distance	Map ID	Page
BAILEY CONCRETE PRODS		NE 1/8 - 1/4 (0.243 mi.)	C8	12
C & M SAND AND GRAVEL		NE 1/8 - 1/4 (0.243 mi.)	C9	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 32 records.

Site Name	Database(s)
ASPHALT SPECIALTIES CO INC. ERIE P	SWRCY
FRONT RANGE LANDFILL	SWF/LF, FINANCIAL ASSURANCE
UST SYSTEM	LUST
WELD COUNTY PUBLIC HEALTH	UST
DACONO GRADER SHED	AST
VISTA RIDGE	RCRA-NonGen, FINDS
PUMPING TECHNOLOGY TRANSPORTATION	RCRA-NonGen, FINDS
STRESSCON DENVER METRO	RCRA-NonGen, FINDS
2240 I 25 E FRONTAGE RD	ERNS
INTERSECTION WELD COUNTY ROAD 10.5	ERNS
WELD COUNTY ROAD 1 & 10.5	ERNS
4558 WELD CO. ROAD 12	ERNS
5764 WELL COUNTY ROAD 7	ERNS
HWY 392 AT WELD COUNTY ROAD 43	ERNS
COUNTY ROAD 49 AND HIGHWAY 392 NOR	ERNS
COUNTY ROAD 49 AT COUNTY ROAD 22	ERNS
I76 FRONTAGE ROAD AT MILEPOST 30.4	ERNS
WELD COUNTY ROAD 23	ERNS
WELD COUNTY ROAD 23	ERNS
ENCANA - HELEN E UNIT 1	FINDS
MILE HIGH SHOOTING RANGE	FINDS, VCP
ENCANA -VESSELS MINERAL E 1&23-19	FINDS
ENCANA- OSKARSON E #1 UNIT	FINDS
ENCANA - THOMAS 7 & E BATTERY	FINDS, AIRS
WELD COUNTY WASTE DISPOSAL	HIST LF
ENCANA - HELEN E UNIT 1	AIRS
KERR-MCGEE - 62107 - COSSLETTE E G	AIRS
KERR-MCGEE 62186 GRAHAM E D 1	AIRS
ENCANA -VESSELS MINERAL E 1&23-19	AIRS
KP KAUFFMAN - KOCH 41-6, KENNETH E	AIRS
ENCANA- OSKARSON E #1 UNIT	AIRS
ENCANA - NELSON E UNIT 1	AIRS

OVERVIEW MAP - 3313445.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie CO 80516 LAT/LONG: 40.048 / 105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY #: 3313445.2s DATE: May 17, 2012 4:10 pm

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DETAIL MAP - 3313445.2s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 4060 E County Line Road ADDRESS: 4060 E County Line Road Erie CO 80516 LAT/LONG: 40.048 / 105.0544	CLIENT: CTL Thompson, Inc. CONTACT: Melissa Chalona INQUIRY #: 3313445.2s DATE: May 17, 2012 4:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	N/A		N/A	N/A	N/A	N/A	N/A	N/A
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	1	1	NR	NR	2
LUST TRUST	0.500		0	0	1	NR	NR	1
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250	1	0	3	NR	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250	1	0	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CO ERNS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	2	NR	NR	NR	2
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
METHANE SITE	TP		NR	NR	NR	NR	NR	0
Methane Investigation	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants	1.000		0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

A1 **ERIE PRE-CAST** **FINDS** **1012078129**
Target **4060 NE COUNTY LINE RD** **N/A**
Property **ERIE, CO 80516**

Site 1 of 2 in cluster A

Actual:
5040 ft.

FINDS:

Registry ID: 110038634181

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

A2 **ERIE PRECAST CONCRETE PRODUCTS** **UST** **U003401177**
Target **4060 WELD CR 1** **AST** **N/A**
Property **ERIE, CO 80516**

Site 2 of 2 in cluster A

Actual:
5040 ft.

CO UST:
Facility ID: 3520

Owner:
Owner Id: 2115
Last Name: ERIE PRECAST CONCRETE PRODUCTS
First Name: Not reported
Middle Init: Not reported
Owner: ERIE PRECAST CONCRETE PRODUCTS
Owner Address: 4060 WELD CR
Owner City: ERIE
Owner State: CO
Owner County: BOULDER
Owner Zip: 80516

Tank Status: Permanently Closed
Date Tank Installed: 06/09/1986
Tank Age: Not reported
Tank Tag: 3520-3
Tank Chemical: Gasoline
Tank Type: UST

AST:
Tank Status: Permanently Closed
Date Tank Installed: 01/01/1980
Tank Age: Not reported
Facility ID: 3520
Owner ID: 2115
Tank Tag: 3520-1

ERIE PRECAST CONCRETE PRODUCTS (Continued) **U003401177**

Tank Contents: Diesel
Tank Type: AST

Tank Status: Permanently Closed
Date Tank Installed: 01/01/1980
Tank Age: Not reported
Facility ID: 3520
Owner ID: 2115
Tank Tag: 3520-2
Tank Contents: Diesel
Tank Type: AST

Owner:
Owner Id: 2115
Last Name: ERIE PRECAST CONCRETE PRODUCTS
First Name: Not reported
Middle Init: Not reported
Owner: ERIE PRECAST CONCRETE PRODUCTS
Owner Address: 4060 WELD CR
Owner City: ERIE
Owner State: CO
Owner County: BOULDER
Owner Zip: 80516

---

3 **ERIE MAINTENANCE SHOP** **AST** **A100184767**
WSW **1149 TELLEEN** **N/A**
1/8-1/4 **ERIE, CO 80516**
0.193 mi.
1019 ft.

Relative:
Higher

Actual:
5065 ft.

AST:
Tank Status: Permanently Closed
Date Tank Installed: 10/01/2000
Tank Age: Not reported
Facility ID: 15359
Owner ID: 7753
Tank Tag: 15359-1
Tank Contents: Diesel/Gasoline (Multi-Comp)
Tank Type: AST

Tank Status: Permanently Closed
Date Tank Installed: 10/01/2000
Tank Age: Not reported
Facility ID: 15359
Owner ID: 7753
Tank Tag: 15359-2
Tank Contents: Not Listed
Tank Type: AST

Owner:
Owner Id: 7753
Last Name: TOWN OF ERIE
First Name: Not reported
Middle Init: Not reported
Owner: TOWN OF ERIE
Owner Address: PO BOX 750
Owner City: ERIE

ERIE MAINTENANCE SHOP (Continued) **A100184767**

Owner State: CO
Owner County: BOULDER
Owner Zip: 80516

B4
NNW
1/8-1/4
0.221 mi.
1168 ft.

CONOCO #06352 **UST** **U003240455**
4200 NE COUNTY LINE RD **N/A**
ERIE, CO 80516

Site 1 of 3 in cluster B

Relative:
Lower

Actual:
5039 ft.

CO UST:
Facility ID: 10335

Owner:
Owner Id: 18313
Last Name: SKY PETROLEUM LLC
First Name: Not reported
Middle Init: Not reported
Owner: SKY PETROLEUM LLC
Owner Address: 7435 S HOUSTOUN WARING CR
Owner City: LITTLETON
Owner State: CO
Owner County: ARAPAHOE
Owner Zip: 80120

Tank Status: Permanently Closed
Date Tank Installed: 04/19/1981
Tank Age: Not reported
Tank Tag: 10335-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 04/19/1981
Tank Age: Not reported
Tank Tag: 10335-2
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Currently In Use
Date Tank Installed: 07/12/1994
Tank Age: 17.7217387430238
Tank Tag: 10335-3
Tank Chemical: Gasoline - Unleaded Regular (RUL)
Tank Type: UST

Tank Status: Currently In Use
Date Tank Installed: 07/12/1994
Tank Age: 17.7217387430238
Tank Tag: 10335-4
Tank Chemical: Gasoline - Premium (PUL)
Tank Type: UST

CONOCO #06352 (Continued) **U003240455**

Tank Status:	Currently In Use
Date Tank Installed:	07/12/1994
Tank Age:	17.7217387430238
Tank Tag:	10335-5
Tank Chemical:	Diesel
Tank Type:	UST

B5 **SKY PETROLEUM, LLC #06352** **LUST S107555130**
NNW **4200 NE COUNTY LINE RD** **AIRS N/A**
1/8-1/4 **ERIE, CO 80516**
0.221 mi.
1168 ft. **Site 2 of 3 in cluster B**

Relative:
Lower

Actual:
5039 ft.

LUST:

Status:	**Closed**
Facility Id:	10335
Event ID:	3064
Confirmed Release:	07/15/1994
Log Date:	07/15/1994

CO AIRS:

County/Plant ID:	013-0519
Contact Person:	DENNIS CHRISTENSEN
Contact Phone:	(303)913-4525
Latitude:	400306.21
Longitude:	1050321.52
SIC Primary:	5541
NAICS Primary:	447110
Unique Emmission Unit ID:	001
Construction Permit Number:	93BO1246S
Emission Unit Description:	3 UNDRGRND GASOLINE TANKS
Full Pollutant Name:	BENZENE
Site-wide Estimated Emissions:	5.0258999999999998E-2
Site-wide Estimated Emissions Units:	Tons Per Year

County/Plant ID:	013-0519
Contact Person:	DENNIS CHRISTENSEN
Contact Phone:	(303)913-4525
Latitude:	400306.21
Longitude:	1050321.52
SIC Primary:	5541
NAICS Primary:	447110
Unique Emmission Unit ID:	001
Construction Permit Number:	93BO1246S
Emission Unit Description:	3 UNDRGRND GASOLINE TANKS
Full Pollutant Name:	VOLATILE ORGANIC COMPOUNDS
Site-wide Estimated Emissions:	5.0258750000000001
Site-wide Estimated Emissions Units:	Tons Per Year

B6 **UNKNOWN** **UST** **U003400724**
North **785 CHEESMAN** **N/A**
1/8-1/4 **ERIE, CO 80516**
0.223 mi.
1178 ft. **Site 3 of 3 in cluster B**

Relative:
Lower

Actual:
5038 ft.

CO UST:
Facility ID: 7397

Owner:
Owner Id: 6116
Last Name: KAUFMAN
First Name: JOAN
Middle Init: Not reported
Owner: JOAN KAUFMAN
Owner Address: 801 INDEPENDENCE
Owner City: LONGMONT
Owner State: CO
Owner County: BOULDER
Owner Zip: 80501

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-1
Tank Chemical: Unknown
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-2
Tank Chemical: Unknown
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-3
Tank Chemical: Unknown
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: Not reported
Tank Age: Not reported
Tank Tag: 7397-4
Tank Chemical: Unknown
Tank Type: UST

7
NNW
1/8-1/4
0.231 mi.
1219 ft.

TRIPLE M MASONRY INC
12640 JAY RD
ERIE, CO 80516

UST **U003241494**
N/A

Relative:
Higher

Actual:
5042 ft.

CO UST:
Facility ID: 6739

Owner:
Owner Id: 5391
Last Name: MUIR
First Name: ROY
Middle Init: B
Owner: ROY B MUIR
Owner Address: 417 JEFFERSON ST
Owner City: KIMBALL
Owner State: NE
Owner County: KIMBALL
Owner Zip: 69145

Tank Status: Permanently Closed
Date Tank Installed: 05/08/1977
Tank Age: Not reported
Tank Tag: 6739-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 05/08/1977
Tank Age: Not reported
Tank Tag: 6739-2
Tank Chemical: Diesel
Tank Type: UST

C8
NE
1/8-1/4
0.243 mi.
1282 ft.

BAILEY CONCRETE PRODS
BOULDER (County), CO
Site 1 of 2 in cluster C

MINES **1011133650**
N/A

Relative:
Lower

Actual:
5023 ft.

MINES:
Mine ID: 0502546
SIC code(s): 14410 00000 00000 00000 00000 00000
Entity name: ERIE PIT
Company: BAILEY CONCRETE PRODS
State FIPS code: 08
County FIPS code: 013
Status: 4
Status date: 19811023
Operation Class: non-Coal Mining
Number of shops: 0
Number of plants: 0
Latitude: 40 03 03
Longitude: 105 03 01

C9 **C & M SAND AND GRAVEL** **MINES** **1011133656**
NE **N/A**
1/8-1/4 **BOULDER (County), CO**
0.243 mi.
1282 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
5023 ft.

MINES:

Mine ID:	0502552
SIC code(s):	14410 00000 00000 00000 00000 00000
Entity name:	ERIE PIT
Company:	C & M SAND AND GRAVEL
State FIPS code:	08
County FIPS code:	013
Status:	4
Status date:	19900605
Operation Class:	non-Coal Mining
Number of shops:	0
Number of plants:	0
Latitude:	40 03 03
Longitude:	105 03 01

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10 **HALLS GROCERY** **LUST** **U003124304**
NE **235 CHEESMAN ST** **LUST TRUST** **N/A**
1/4-1/2 **ERIE, CO 80516** **UST**
0.367 mi.
1940 ft.

Relative:
Lower

Actual:
5018 ft.

LUST:

Status:	**State Lead**
Facility Id:	3857
Event ID:	4035
Confirmed Release:	10/07/1992
Log Date:	10/07/1992
Status:	**Closed**
Facility Id:	3857
Event ID:	9167
Confirmed Release:	03/17/2003
Log Date:	03/21/2003

CO LUST TRUST:

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	4202
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	05/26/2000
Total Reimbursement:	$22,875.37
Net Reimbursement:	$22,852.37
FPR Date:	08/22/2000
Pay Voucher Date:	09/05/2000
Protest Number:	Not reported
Special Conditions:	Not reported

HALLS GROCERY (Continued) **U003124304**

Fund Analyst:	Cindee Garner-Floro
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8513
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	8379
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/30/2003
Total Reimbursement:	$15,097.75
Net Reimbursement:	$15,097.75
FPR Date:	01/12/2004
Pay Voucher Date:	01/22/2004
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15657
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/02/2007
Total Reimbursement:	$37,714.49
Net Reimbursement:	$37,714.49
FPR Date:	05/14/2007
Pay Voucher Date:	05/29/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035

HALLS GROCERY (Continued) **U003124304**

RAP ID:	15875
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	05/10/2007
Total Reimbursement:	$6,000.51
Net Reimbursement:	$5,998.36
FPR Date:	07/23/2007
Pay Voucher Date:	08/08/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	18183
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/01/2008
Total Reimbursement:	$13,527.13
Net Reimbursement:	$13,503.84
FPR Date:	01/30/2009
Pay Voucher Date:	02/10/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15121
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	12/11/2006

HALLS GROCERY (Continued) **U003124304**

Total Reimbursement:	$62,661.40
Net Reimbursement:	$62,661.40
FPR Date:	02/21/2007
Pay Voucher Date:	03/08/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	3512
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	07/29/1999
Total Reimbursement:	$47,985.91
Net Reimbursement:	$47,927.66
FPR Date:	10/25/1999
Pay Voucher Date:	11/18/1999
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	1858
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	02/21/1997
Total Reimbursement:	$36,952.87
Net Reimbursement:	$36,952.87
FPR Date:	07/28/1997
Pay Voucher Date:	08/19/1997
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox

HALLS GROCERY (Continued) **U003124304**

Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	2014
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	06/13/1997
Total Reimbursement:	$16,164.07
Net Reimbursement:	$16,162.57
FPR Date:	09/04/1997
Pay Voucher Date:	09/18/1997
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Cindee Garner-Floro
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8513
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	20836
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/11/2010
Total Reimbursement:	$7,712.72
Net Reimbursement:	$7,712.72
FPR Date:	06/02/2010
Pay Voucher Date:	06/16/2010
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	19856
Commissioned Date:	Not reported
Cap Status:	Not reported

HALLS GROCERY (Continued) **U003124304**

Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	08/11/2009
Total Reimbursement:	$14,189.59
Net Reimbursement:	$14,146.46
FPR Date:	10/26/2009
Pay Voucher Date:	11/12/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	18581
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	12/26/2008
Total Reimbursement:	$10,964.36
Net Reimbursement:	$10,964.36
FPR Date:	01/26/2009
Pay Voucher Date:	02/04/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	1638
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	09/26/1996
Total Reimbursement:	$15,817.82
Net Reimbursement:	$15,817.82
FPR Date:	01/22/1997

HALLS GROCERY (Continued) **U003124304**

Pay Voucher Date:	02/12/1997
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	2615
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	04/24/1998
Total Reimbursement:	$23,663.27
Net Reimbursement:	$23,538.27
FPR Date:	07/17/1998
Pay Voucher Date:	08/04/1998
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	19164
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/01/2009
Total Reimbursement:	$10,659.49
Net Reimbursement:	$10,598.18
FPR Date:	06/05/2009
Pay Voucher Date:	06/16/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

HALLS GROCERY (Continued) **U003124304**

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	3679
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	10/21/1999
Total Reimbursement:	$15,269.21
Net Reimbursement:	$14,808.78
FPR Date:	02/08/2000
Pay Voucher Date:	02/29/2000
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Carolyn Skaggs
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8514

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	4808
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	01/24/2001
Total Reimbursement:	$18,219.80
Net Reimbursement:	$18,219.80
FPR Date:	07/30/2001
Pay Voucher Date:	08/16/2001
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	19101
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36

HALLS GROCERY (Continued) **U003124304**

Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/19/2009
Total Reimbursement:	$3,264.46
Net Reimbursement:	$3,232.63
FPR Date:	05/04/2009
Pay Voucher Date:	06/08/2009
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15566
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/12/2007
Total Reimbursement:	$49,248.23
Net Reimbursement:	$49,248.23
FPR Date:	05/07/2007
Pay Voucher Date:	05/23/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	6246
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	06/19/2002
Total Reimbursement:	$8,370.36
Net Reimbursement:	$8,161.11
FPR Date:	08/28/2002
Pay Voucher Date:	09/11/2002
Protest Number:	Not reported
Special Conditions:	Not reported

HALLS GROCERY (Continued) **U003124304**

Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	16554
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/15/2007
Total Reimbursement:	$18,932.54
Net Reimbursement:	$18,927.29
FPR Date:	12/05/2007
Pay Voucher Date:	12/26/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15507
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/02/2007
Total Reimbursement:	$3,515.23
Net Reimbursement:	$3,513.18
FPR Date:	04/26/2007
Pay Voucher Date:	05/15/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035

HALLS GROCERY (Continued) **U003124304**

RAP ID:	11412
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/07/2005
Total Reimbursement:	$13,822.59
Net Reimbursement:	$13,009.34
FPR Date:	07/21/2005
Pay Voucher Date:	08/08/2005
Protest Number:	77-316
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	Not reported
Event ID:	4035
RAP ID:	449
Commissioned Date:	05/05/1995
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Original
Rap Status:	Approved
Rap Filed Date:	10/12/1993
Total Reimbursement:	$28,610.10
Net Reimbursement:	$17,785.10
FPR Date:	01/01/1994
Pay Voucher Date:	Not reported
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	13671
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/23/2006

HALLS GROCERY (Continued) **U003124304**

Total Reimbursement:	$12,028.25
Net Reimbursement:	$12,023.40
FPR Date:	09/28/2006
Pay Voucher Date:	10/17/2006
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	15024
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	11/22/2006
Total Reimbursement:	$10,837.96
Net Reimbursement:	$10,829.37
FPR Date:	02/05/2007
Pay Voucher Date:	02/21/2007
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	22463
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	02/17/2011
Total Reimbursement:	$4,858.05
Net Reimbursement:	$4,858.05
FPR Date:	08/18/2011
Pay Voucher Date:	09/08/2011
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station

HALLS GROCERY (Continued) **U003124304**

Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	Not reported
Event ID:	4035
RAP ID:	637
Commissioned Date:	05/05/1995
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	06/14/1994
Total Reimbursement:	$8,796.35
Net Reimbursement:	$8,796.35
FPR Date:	01/01/1994
Pay Voucher Date:	Not reported
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	21907
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/28/2010
Total Reimbursement:	$14,292.08
Net Reimbursement:	$14,292.08
FPR Date:	02/07/2011
Pay Voucher Date:	02/23/2011
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	7683

HALLS GROCERY (Continued) **U003124304**

Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	05/21/2003
Total Reimbursement:	$10,928.57
Net Reimbursement:	$10,829.57
FPR Date:	08/07/2003
Pay Voucher Date:	08/15/2003
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Chris Dufex
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8515

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	21819
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	10/12/2010
Total Reimbursement:	$7,975.65
Net Reimbursement:	$7,975.65
FPR Date:	12/13/2010
Pay Voucher Date:	01/03/2011
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	21274
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	06/09/2010

HALLS GROCERY (Continued) **U003124304**

Total Reimbursement:	$10,689.73
Net Reimbursement:	$10,689.73
FPR Date:	11/03/2010
Pay Voucher Date:	11/18/2010
Protest Number:	Not reported
Special Conditions:	Legal Name is Charles J Hepp dba CJH Property LLC per 1/28/09 W-9 - CAHII
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	14343
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	07/21/2006
Total Reimbursement:	$10,956.42
Net Reimbursement:	$10,948.95
FPR Date:	11/17/2006
Pay Voucher Date:	12/06/2006
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	9165
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	03/19/2004
Total Reimbursement:	$12,491.72
Net Reimbursement:	$12,491.72
FPR Date:	07/12/2004
Pay Voucher Date:	07/21/2004
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station

HALLS GROCERY (Continued) **U003124304**

Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	12918
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	11/23/2005
Total Reimbursement:	$16,576.48
Net Reimbursement:	$16,393.29
FPR Date:	02/28/2006
Pay Voucher Date:	03/24/2006
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	17478
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	04/30/2008
Total Reimbursement:	$12,470.04
Net Reimbursement:	$12,470.04
FPR Date:	05/28/2008
Pay Voucher Date:	06/10/2008
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511
Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	17759
Commissioned Date:	Not reported

HALLS GROCERY (Continued) **U003124304**

Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	07/03/2008
Total Reimbursement:	$11,631.50
Net Reimbursement:	$11,631.50
FPR Date:	09/15/2008
Pay Voucher Date:	10/06/2008
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	6560
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	09/24/2002
Total Reimbursement:	$7,277.48
Net Reimbursement:	$7,277.48
FPR Date:	01/23/2003
Pay Voucher Date:	02/05/2003
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	1120
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	Supplemental
Rap Status:	Approved
Rap Filed Date:	08/25/1995
Total Reimbursement:	$3,963.06
Net Reimbursement:	$3,963.06

HALLS GROCERY (Continued) **U003124304**

FPR Date:	01/18/1996
Pay Voucher Date:	01/31/1996
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Susan DeMeules
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8510

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	20289
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	11/17/2009
Total Reimbursement:	$10,456.17
Net Reimbursement:	$10,428.19
FPR Date:	01/06/2010
Pay Voucher Date:	01/14/2010
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

Facility ID:	3857
Payee Name:	CJH PROPERTY LLC
Event ID:	4035
RAP ID:	17038
Commissioned Date:	Not reported
Cap Status:	Not reported
Eligibility Type Description:	Property Owner
Total Percent Reduction:	0.0
Total Reimbursement for Event:	$666,965.36
Rap Type Description:	eRAP Supplemental
Rap Status:	Approved
Rap Filed Date:	01/24/2008
Total Reimbursement:	$11,708.71
Net Reimbursement:	$11,707.15
FPR Date:	03/19/2008
Pay Voucher Date:	03/27/2008
Protest Number:	Not reported
Special Conditions:	Not reported
Fund Analyst:	Joy Shulman
Category:	Retail Gas Station
Technical Reviewer:	Tom Fox
Technical Reviewer Phone:	303-318-8535
Fund Analyst Phone:	(303) 318-8511

HALLS GROCERY (Continued) **U003124304**

CO UST:
Facility ID: 6393

Owner:
Owner Id: 17702
Last Name: UNKNOWN #2
First Name: Not reported
Middle Init: Not reported
Owner: UNKNOWN #2
Owner Address: UNKNOWN
Owner City: ARVADA
Owner State: CO
Owner County: JEFFERSON
Owner Zip: 80002

Tank Status: Permanently Closed
Date Tank Installed: 05/16/1978
Tank Age: Not reported
Tank Tag: 6393-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 05/16/1978
Tank Age: Not reported
Tank Tag: 6393-2
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 05/16/1978
Tank Age: Not reported
Tank Tag: 6393-3
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 10/01/1978
Tank Age: Not reported
Tank Tag: 3857-1
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed
Date Tank Installed: 10/01/1978
Tank Age: Not reported
Tank Tag: 3857-2
Tank Chemical: Gasoline
Tank Type: UST

Tank Status: Permanently Closed

HALLS GROCERY (Continued) **U003124304**

Date Tank Installed:	10/01/1978
Tank Age:	Not reported
Tank Tag:	3857-3
Tank Chemical:	Gasoline
Tank Type:	UST

Count: 32 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOMFIELD	S110341005	ENCANA - HELEN E UNIT 1	SE SE SEC 23	80516	AIRS
BROOMFIELD	1014682215	ENCANA - HELEN E UNIT 1	SE SE SEC 23	80516	FINDS
DACONO	S110341112	KERR-MCGEE - 62107 - COSSLETTE E G	CSW SEC 1	80516	AIRS
DACONO	S109896333	KERR-MCGEE 62186 GRAHAM E D 1	NWSW-12-1N-68W	80516	AIRS
ERIE	S102719746	UST SYSTEM	3159 RT 2	80516	LUST
ERIE	2010938662	2240 I 25 E FRONTAGE RD	2240 I 25 FRONTAGE RD E		ERNS
ERIE	U003978091	WELD COUNTY PUBLIC HEALTH	5500 HWY 52	80516	UST
ERIE	1007690876	MILE HIGH SHOOTING RANGE	1745 HWY 7	80516	FINDS, VCP
ERIE	1004680529	VISTA RIDGE	1745 COLORADO HWY 7	80516	RCRA-NonGen, FINDS
ERIE	99628780	INTERSECTION WELD COUNTY ROAD 10.5	INTERSECTION WELD COUNTY ROAD		ERNS
ERIE	1014681478	ENCANA -VESSELS MINERAL E 1&23-19	NWSW SEC 19	80516	FINDS
ERIE	S110341015	ENCANA -VESSELS MINERAL E 1&23-19	NWSW SEC 19	80516	AIRS
ERIE	S111025063	KP KAUFFMAN - KOCH 41-6, KENNETH E	SENE 6	80516	AIRS
ERIE	A100270398	DACONO GRADER SHED	5510 STATE HIGHWAY 52	80516	AST
ERIE	S110079785	ENCANA- OSKARSON E #1 UNIT	SW SW SEC 33	80516	AIRS
ERIE	1009800913	ENCANA- OSKARSON E #1 UNIT	SW SW SEC 33 T2N R68W	80516	FINDS
ERIE	1007488006	ENCANA - THOMAS 7 & E BATTERY	NE SW SEC 7	80516	FINDS, AIRS
ERIE	S111025205	ENCANA - NELSON E UNIT 1	SWSW SEC 32	80516	AIRS
ERIE	2008874297	WELD COUNTY ROAD 1 & 10.5	WELD COUNTY ROAD 1 & 10.5		ERNS
ERIE	2005626348	4558 WELD CO. ROAD 12	4558 WELD CO. ROAD 12		ERNS
ERIE	1000347734	PUMPING TECHNOLOGY TRANSPORTATION	1450 WELD COUNTY ROAD 6	80516	RCRA-NonGen, FINDS
ERIE	1001217781	STRESSCON DENVER METRO	5434 WELD COUNTY RD 12	80516	RCRA-NonGen, FINDS
ERIE	S110140880	ASPHALT SPECIALTIES CO INC. ERIE P	3220 WELD COUNTY RD	80516	SWRCY
ERIE	S102448988	FRONT RANGE LANDFILL	1830 WELD COUNTY RD	80516	SWF/LF, FINANCIAL ASSURANCE
ERIE	2005601697	5764 WELL COUNTY ROAD 7	5764 WELL COUNTY ROAD 7	80516	ERNS
WELD COUNTY	2011980235	HWY 392 AT WELD COUNTY ROAD 43	HWY 392 AT WELD COUNTY ROAD 43		ERNS
WELD COUNTY	2010930522	COUNTY ROAD 49 AND HIGHWAY 392 NOR	COUNTY ROAD 49 AND HIGHWAY 392		ERNS
WELD COUNTY	2011974030	COUNTY ROAD 49 AT COUNTY ROAD 22	COUNTY ROAD 49 AT COUNTY ROAD		ERNS
WELD COUNTY	2011968397	I76 FRONTAGE ROAD AT MILEPOST 30.4	I76 FRONTAGE ROAD AT MILEPOST		ERNS
WELD COUNTY	S100796636	WELD COUNTY WASTE DISPOSAL	5019 WELD CR 35		HIST LF
WELD COUNTY	2009903171	WELD COUNTY ROAD 23	WELD COUNTY ROAD 23		ERNS
WELD COUNTY	2008903171	WELD COUNTY ROAD 23	WELD COUNTY ROAD 23		ERNS

APPENDIX H

ENVIRONMENTAL SITE QUESTIONAIRES

Phase I Environmental Site Assessment
Client Questionnaire

CTL | THOMPSON

Completion of this form will provide us with basic information related to the property and will assist us in following the requests for records and other project tasks. Please complete the form to the best of your knowledge and return it to us in a timely manner.

- Please provide a site plan that accurately shows the property boundaries.
- Are there any critical report deadlines we should be aware of? No
- Reason for performing this Phase I ESA: Buyer Request
- Planned property use: Unknown
- Will the property be serviced by municipal water?: Unknown
- Site owner's contact information (A formal environmental questionnaire will be forwarded to the property owner):

Representatives Name: Tom Beckius / Clark Foster
Company: INA Group LLC
Address: 6333 Apples Way #115, Lincoln NE 68516
Phone / Fax: 402-435-0011, Fax 402-435-0088
Email: tbeckius@mccrealty.com

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the Phase I ESA report user must provide the following information (if available) to the environmental professional preparing the report.

- Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

No

- Are you aware of any Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

No

- Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No

- Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, is the lower purchase price because contamination is known or believed to be present at the property?

Yes - no difference

- Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? Such information may include knowledge of past site uses, chemicals storage on the site, hazardous materials spills, or previous environmental cleanups at the site or in the surrounding area. If so, please explain.

No

- Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Name: [signature]
Title: Representative
Date: 5/2/12

One Buyers have stated presence of an underground tank.

If Additional Space is Needed, Please Attach Written Responses

CTL | THOMPSON INCORPORATED

SUBJECT: OWNER QUESTIONNAIRE
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Sir/Madam

CTL | Thompson has been retained to perform a Phase I Environmental Site Assessment for a property in which you have been identified as the owner. Phase I Environmental Site Assessments are a due diligence tool that are often used in property acquisitions and property transfers. This questionnaire is part of the Phase I process, and has been prepared to comply with the American Society for Testing and Materials' Standard Practice for Environmental Site Assessments (ASTM E 1527). These questions have been designed to obtain background information on the property and to determine whether you are aware of environmental issues on or near the property. Please answer the following questions completely and to the best of your knowledge. We appreciate your assistance in working with us to complete this questionnaire. My contact information is at the end of the letter if you should have any questions.

Property Address: 4060 County Line Rd, Erie, Co

- Have there been any previous environmental investigations performed at the site? If yes, are reports available?

  Unknown

- How long have you been associated with the site?

  Owner for a few months - approx. 4 months

- List current site owner(s) and dates of ownership:

  INA Group, LLC - & owner since 12/2011

- List previous site owner(s) and dates of ownership, if known:

  Unknown

- Please state the current use(s) of the site and any on-site structures (houses, buildings, sheds, etc.):

  Vacant; commercial building

- List any known past uses of the site:

  Unknown

- Are you aware of environmental concerns on adjacent parcels to the site (i.e. service stations, dry cleaners, industrial facilities, etc.)?

  Unknown

▼ Were or are any of these items located on-site:

Underground storage tanks	☒ Yes	☐ No	☐ Don't Know
Aboveground storage tanks	☐ Yes	☐ No	☒ Don't Know
Boilers (Non-Natural Gas)	☐ Yes	☐ No	☒ Don't Know
Pesticide Mixing/Use Areas	☐ Yes	☐ No	☒ Don't Know
Cultivated Land, Crops, or Orchards (specify type below)	☐ Yes	☐ No	☒ Don't Know
Drains, Sumps, or Pits	☐ Yes	☐ No	☒ Don't Know
Elevators	☐ Yes	☐ No	☒ Don't Know
Emergency Generators	☐ Yes	☐ No	☒ Don't Know
Equipment or Vehicle Maintenance Areas	☐ Yes	☐ No	☒ Don't Know
Hazardous Material Storage Areas	☐ Yes	☐ No	☒ Don't Know
Hydraulic Lifts	☐ Yes	☐ No	☒ Don't Know
Incineration Areas	☐ Yes	☐ No	☒ Don't Know
Oil Water Separators or Clarifiers	☐ Yes	☐ No	☒ Don't Know
Petroleum Pipelines	☐ Yes	☐ No	☒ Don't Know
Railroad Lines	☐ Yes	☐ No	☒ Don't Know
Solid Waste or Landfill Disposal Areas	☐ Yes	☐ No	☒ Don't Know
Stockpiles of Soil and Debris	☐ Yes	☐ No	☒ Don't Know
Transformers	☐ Yes	☐ No	☒ Don't Know
Vehicle Wash Areas	☐ Yes	☐ No	☒ Don't Know
Waste Water Discharge and/or Treatment Systems	☐ Yes	☐ No	☒ Don't Know
Wells (Agricultural or Water Supply)	☐ Yes	☐ No	☒ Don't Know
Wells (Monitoring or Dry)	☐ Yes	☐ No	☒ Don't Know
Wells (Natural Gas or Oil)	☐ Yes	☐ No	☒ Don't Know

If yes to any of the above, please briefly describe: Buyer has stated presence of underground storage tank. Seller (LNA Group) has never been to the site and has no actual knowledge of such.

- How is water supplied to the property (i.e., public system, on-site well)?

Unknown

- Are there any sewage disposal systems on-site (i.e., septic tanks, leachfield systems, sanitary sewer)?

Unknown

- Have there been, or are there currently, any hazardous substances used, handled, or stored on the property (i.e., Pesticides, gasoline, oils, solvents, etc.)? If yes, describe how the material is used, stored and disposed.

Unknown

- Is any chemical waste disposed to the sanitary sewer?

Unknown

- Have there been any leaks or spills of hazardous materials on the property?

Unknown

- Has your business received a violation notice regarding hazardous materials usage, storage or disposal practices?

No

- Have imported soils, debris, or other materials been placed or buried on-site?

Unknown

- Is there anything else regarding the property that you think we may want to know from an environmental or engineering perspective?

No

- If we may contact them, please provide names and phone numbers of current or past occupants who may have additional knowledge of the site:

Unknown

Signed: _____ **Date:** May 2, 2012

Printed Name: Clark Foster **Title:** Managing Member

Company: INA Group

If you have any questions, or would like to respond by phone, please call Melissa Chalona at (970) 206-9455 or by email: mchalona@ctlthompson.com.

Very truly yours,
CTL|THOMPSON, INC.

Melissa L. Chalona, P.E.
Environmental Project Manager

CTL | THOMPSON

SUBJECT: OWNER QUESTIONNAIRE
PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Sir/Madam

CTL | Thompson has been retained to perform a Phase I Environmental Site Assessment for a property in which you have been identified as the owner. Phase I Environmental Site Assessments are a due diligence tool that are often used in property acquisitions and property transfers. This questionnaire is part of the Phase I process, and has been prepared to comply with the American Society for Testing and Materials' Standard Practice for Environmental Site Assessments (ASTM E 1527). These questions have been designed to obtain background information on the property and to determine whether you are aware of environmental issues on or near the property. Please answer the following questions completely and to the best of your knowledge. We appreciate your assistance in working with us to complete this questionnaire. My contact information is at the end of the letter if you should have any questions.

Property Address: 4060 County Line Rd, Erie Co.

- Have there been any previous environmental investigations performed at the site? If yes, are reports available?
  UNKNOWN
- How long have you been associated with the site?
  2 MONTHS, PREVIOUSLY WE KNEW THE OPERATOR OF THE FACILITY AND WE HAD PURCHASED CONC. TANKS
- List current site owner(s) and dates of ownership:
  TOM BECKIUS 12/2011 - AQUIRED PROPERTY FROM TAX LIENS & TREASURES DEED.
- List previous site owner(s) and dates of ownership, if known:
  Cheryl ZURUBA - 1980's - 2011 (HUSBAND DIED 2002 - WAS the OPERATOR UNTIL HIS DEATH)
  720-300-9980
- Please state the current use(s) of the site and any on-site structures (houses, buildings, sheds, etc.):
  VACANT / ABANDONED
- List any known past uses of the site:
  ERIE PRECAST - CONCRETE TANKS & MANHOLE POUR & FORM
- Are you aware of environmental concerns on adjacent parcels to the site (i.e. service stations, dry cleaners, industrial facilities, etc.)?
  UNKNOWN

~~STEVE~~ Cheryl ZURUBA HAS EXTENSIVE KNOWLEDGE OF THE SITE AND CAN GIVE YOU NAMES OF PAST EMPLOYEES WHO COULD ALSO GIVE YOU GOOD INFORMATION.

351 Linden Street, #140 | Fort Collins, Colorado 80524 | Telephone: 970-206-9455; Fax: 970-206-9441

▼ Were or are any of these items located on-site:

Underground storage tanks	☑ Yes	☐ No	☐ Don't Know
Aboveground storage tanks	☑ Yes	☐ No	☐ Don't Know
Boilers (Non-Natural Gas)	☐ Yes	☐ No	☑ Don't Know
Pesticide Mixing/Use Areas	☐ Yes	☐ No	☑ Don't Know
Cultivated Land, Crops, or Orchards (specify type below)	☐ Yes	☐ No	☑ Don't Know
Drains, Sumps, or Pits	☐ Yes	☐ No	☑ Don't Know
Elevators	☐ Yes	☐ No	☑ Don't Know
Emergency Generators	☐ Yes	☐ No	☑ Don't Know
Equipment or Vehicle Maintenance Areas	☐ Yes	☐ No	☑ Don't Know
Hazardous Material Storage Areas	☐ Yes	☐ No	☑ Don't Know
Hydraulic Lifts	☐ Yes	☐ No	☑ Don't Know
Incineration Areas	☐ Yes	☐ No	☑ Don't Know
Oil Water Separators or Clarifiers	☐ Yes	☐ No	☑ Don't Know
Petroleum Pipelines	☐ Yes	☐ No	☑ Don't Know
Railroad Lines	☐ Yes	☐ No	☑ Don't Know
Solid Waste or Landfill Disposal Areas	☐ Yes	☐ No	☑ Don't Know
Stockpiles of Soil and Debris	☐ Yes	☐ No	☑ Don't Know
Transformers	☐ Yes	☐ No	☑ Don't Know
Vehicle Wash Areas	☐ Yes	☐ No	☑ Don't Know
Waste Water Discharge and/or Treatment Systems	☐ Yes	☐ No	☑ Don't Know
Wells (Agricultural or Water Supply)	☐ Yes	☐ No	☑ Don't Know
Wells (Monitoring or Dry)	☐ Yes	☐ No	☑ Don't Know
Wells (Natural Gas or Oil)	☐ Yes	☐ No	☑ Don't Know

If yes to any of the above, please briefly describe:

We have heard that there are underground tanks onsite. Location unknown. This site operated as a precast concrete plant for more than 20 yrs.

▼ How is water supplied to the property (i.e., public system, on-site well)?

PUBLIC WATER SUPPLY ? TOWN

▼ Are there any sewage disposal systems on-site (i.e., septic tanks, leachfield systems, sanitary sewer)?

UNKNOWN

▼ Have there been, or are there currently, any hazardous substances used, handled, or stored on the property (i.e., Pesticides, gasoline, oils, solvents, etc.)? If yes, describe how the material is used, stored and disposed.

VARIOUS BARRELS ARE ON SITE, WITH UNKNOWN CONTENTS.

▼ Is any chemical waste disposed to the sanitary sewer?

UNKNOWN

▼ Have there been any leaks or spills of hazardous materials on the property?

UNKNOWN

▼ Has your business received a violation notice regarding hazardous materials usage, storage or disposal practices?

N/A

▼ Have imported soils, debris, or other materials been placed or buried on-site?

UNKNOWN

▼ Is there anything else regarding the property that you think we may want to know from an environmental or engineering perspective?

Form oil, Machinery Repair

▼ If we may contact them, please provide names and phone numbers of current or past occupants who may have additional knowledge of the site:

Signed: _____ **Date:** 5.3.12

Printed Name: JD Parker **Title:** VP

Company: Skyline Builders, INC

If you have any questions, or would like to respond by phone, please call Melissa Chalona at (970) 206-9455 or by email: mchalona@ctlthompson.com.

Very truly yours,
CTL|THOMPSON, INC.

Melissa L. Chalona, P.E.
Environmental Project Manager

Phase I Environmental Site Assessment
Client Questionnaire

CTL | THOMPSON

Completion of this form will provide us with basic information related to the property and will assist us in following the requests for records and other project tasks. Please complete the form to the best of your knowledge and return it to us in a timely manner.

- Please provide a site plan that accurately shows the property boundaries.
- Are there any critical report deadlines we should be aware of? NO
- Reason for performing this Phase I ESA: FUTURE PURCHASE.
- Planned property use: DEVELOPMENT OF AG EXISTING.
- Will the property be serviced by municipal water?: ? BELIEVE TO HAVE EXISTING TAP
- Site owner's contact information (A formal environmental questionnaire will be forwarded to the property owner):

Representatives Name: TOM BECKIUS

Company: INA GROUP, LLC

Address: 6333 APPLE WAY LINCOLN, NE 68511

Phone / Fax: 402-435-0011

Email:

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the Phase I ESA report user must provide the following information (if available) to the environmental professional preparing the report.

- Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

NO

- Are you aware of any Activity and Land Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

NO

- Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

NO

- Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, is the lower purchase price because contamination is known or believed to be present at the property?

YES

- Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? Such information may include knowledge of past site uses, chemicals storage on the site, hazardous materials spills, or previous environmental cleanups at the site or in the surrounding area. If so, please explain.

NO

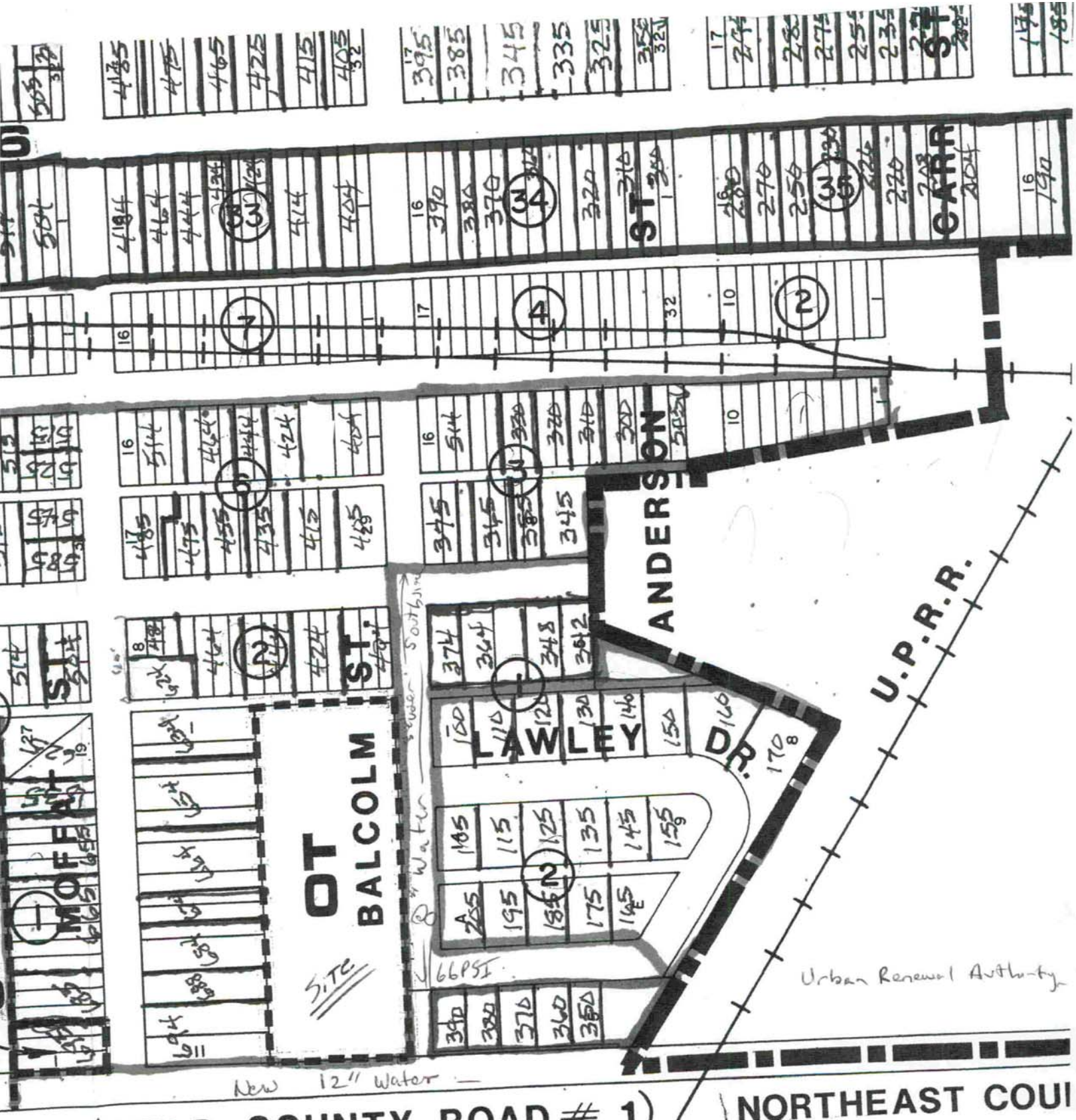
- Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property? [redacted] BARRELS ONSITE, ?

Name: [redacted]
Title: VP
Date: 5.5.12

If Additional Space is Needed, Please Attach Written Responses

Return Completed Questionnaire to Melissa Chalona | MChalona@CTLThompson.com

351 Linden Street #140 | Fort Collins, Colorado 80524 | Phone: 970-206-9455 | Fax: 970-206-9441



Taps / Impact Fees Parks / Trans / Public Works - W/S - Traffic. Wendy / Russell.

Unit 3 / Chapter 3 — (Zoning)

→ Unified Development Code

— Neighborhood mixed-use — Stormwater Water Quality / BE Green

Feature Type	Size/Qty	Year Built
Equipment Storage	12,300	1973

Listing Information

MLS Listing Number:	**M823612**	Current Listing Price:	**$595,400**
MLS Status:	**Expired**	Pending Date:	**08/10/2010**

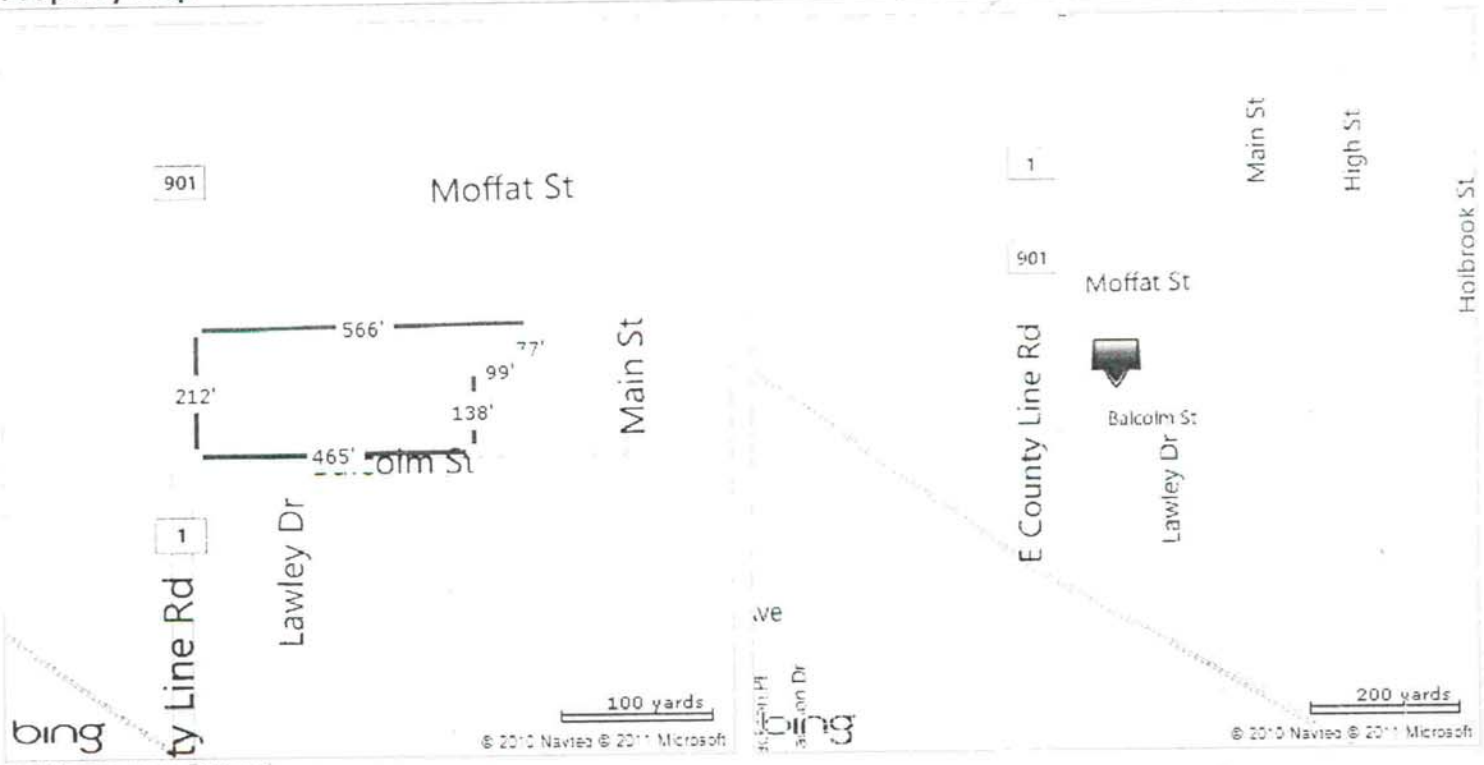
MLS Listing #	M753653
MLS Status	Expired

Market Sale & Sale History

Owner Name (Last, First):	**Zaruba Cheryl A**	Owner Name 2:	**Zaruba Donald H Heirs Of**

Recording Date	08/03/2001
Nominal	Y
Buyer Name	Zaruba Cheryl A
Seller Name	Zaruba Donald H Jr
Document Number	2871820
Document Type	Personal Representative's Deed

Property Map



*Lot Dimensions are Estimated

Building 1 of 3

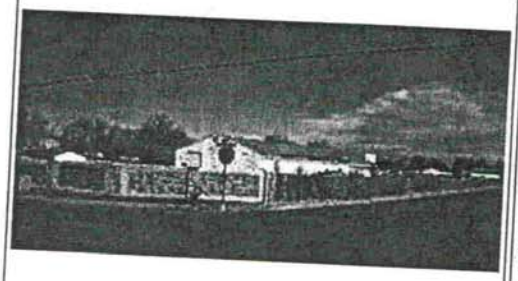
Owner Information

Owner Name (Last, First):	**Zaruba Cheryl A**	Tax Billing Zip+4:	**1316**
Owner Name 2:	**Zaruba Donald H Heirs Of**	Owner Occupied:	**No**
Tax Billing City & State:	**Longmont, CO**	Owner Last Name:	**Zaruba**
Tax Billing Zip:	**80504**		

Location Information

Subdivision:	**Erie Town**	Township Range Sect:	**1-68-18**

©IRES



IRES MLS # :676047 **PRICE:** $249,000

4060 NE County Line Rd, Erie 80516

VACANT LAND/LOTS / COM **ACTIVE**

Locale: Erie **County:** Weld

Area/SubArea: 10/31 **Map Book:** O - 102 - M

Subdivision: Erie Town

Legal: ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK 4 HUNTS 1st ADD TO ERIE W TO W LN SEC

Nearest Town: **Miles To Nearest Town:**

Built: **SqFt Source:**

New Const: No

Builder:

Listing Comments: Previous PreCast Concrete company. 212 feet of frontage on County Road 1.

Driving Directions: From I-25 West on Highway 8, jog on Leon Wurl Pwky then North on County Line Road. Property is on the north side of Balcolm, just south of the school.

Property Features

Land Size: 1-5 Acres**Location Description:** Corner Lot, Outbuildings, Within City Limits**Fences:** Partially Fenced**Road Access:** County Road/County Maintained**Number of Living Unit Allowed:** See Remarks **Water/Sewer:** No Water/Sewer**Ownership:** Private Owner**Possession:** Delivery of Deed**Property Disclosures:** No Property Disclosure**Flood Plain:** Minimal Risk**Possible Usage:** Multi Family**Development Status:** Undeveloped**New Financing/Lending:** Cash, Conventional

Elementary: Erie
Middle/Jr.: Erie
High School: Erie
School District: St Vrain Dist Re 1j

Lot Size:108900 **Approx Acres:**2.5
Elec: **Water:**None
Gas: **Taxes:** $10,496/2010
PIN: **Zoning:**OTR
Waterfront: No **Water Meter Inst:** No
Well Permit #:

HOA: No

Water Tap Fee: **Sewer Tap Fee:**
Irrigation Water Rights: No
Has Irrig Ditches: No
Well Information:
Water Rights:
Lake/Reservoir/Stream:
Crops:
Improvements on Prop: Yes
Improvements:

Contact: Nelson Miner**Phone:** 303-682-0150**Cell:** **Email:** lorijminer@aol.com
Office: Prime RE Mgmt Services LLC**Phone:** 303-682-0150
LA: Nelson Miner**LO:** Prime RE Mgmt Services LLC

Prepared By: Nelson Miner - Mar 20, 2012 12:35:42 PM

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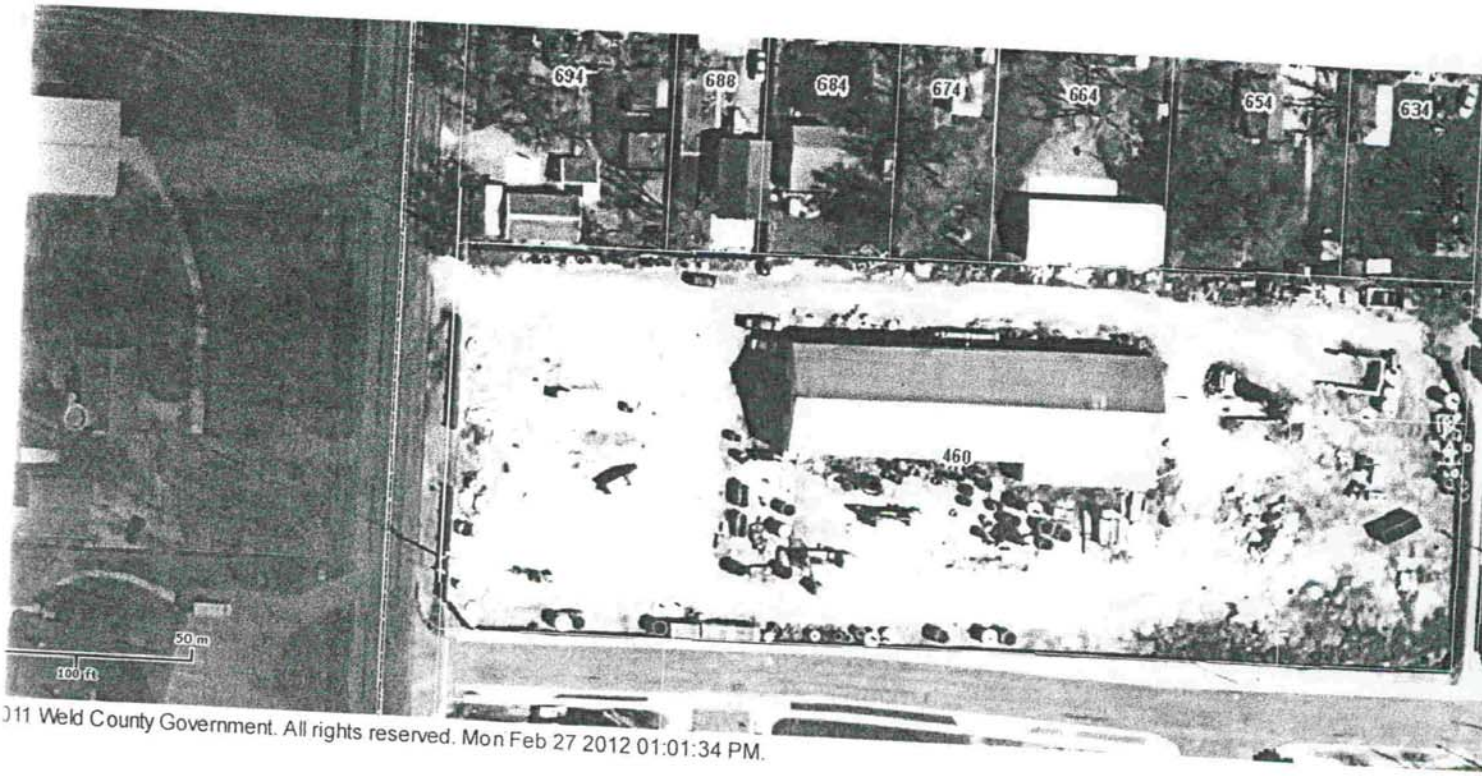


011 Weld County Government. All rights reserved. Mon Feb 27 2012 01:01:34 PM.

TNA GROUP, LLC /
CLARK FOSLER

Property Profile for Account #R5746486

February 27, 2012

Account Information

Account	Parcel	Space	Account Type	Tax Year	Tax Area	Buildings	Actual Value	Assessed Value
R5746486	146718300003		Commercial	2012	1333	3	340,290	98,690

Legal
ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK4 HUNTS 1ST ADD TO ERIE W TO W LN SEC S214.7' E526' N131.7' E96' N83' TO BEG (2.5A M/L)

Subdivision	Block	Lot	Land Economic Area
ERIE TOWN	4	1	ERIE COMM

Property Address	Property City	Zip	Section	Township	Range
4060 1 CR	ERIE	000000000	18	01	68

Owner Information

Owner(s)	Address Line 1	Address Line 2	City	ST	Zip
INA GROUP LLC	6333 APPLES WAY STE 115		LANCASTER	NE	68516

Document History Information

Reception	Rec Date	Type	Grantor	Grantee	Sale Date	Sale Price
02118725	10/23/1987	QCN			05/01/1987	0
2916487	01/14/2002	PRDN	ZARUBA DONALD G	ZARUBA CHERYL A (50% INT) & DONALD	01/10/2002	0
3812263	12/15/2011	TRD	WELD CO TREASURER	INA GROUP LLC	12/14/2011	0

Building Information

Building 1

ID	Type	NBHD	Occupancy	Built As	Bedrooms	Baths	Rooms
1	Commercial	3901	Storage Warehouse	Equipment Storage	0	0	0

ID	Square Ft	Condo SF	Total Basement SF	Finished Bsmt SF	Garage SF	Carport SF	Balcony SF	Porch SF
1	12,300	0	0	0	0	0	0	0

ID	Year Built	% Complete	Stories	Perimeter	Units	Unit Type
1	1973	100	1	530	0	

ID	Length	Width	Make

1	0	0	

ID	Exterior	Roof Cover	Interior	HVAC
1				None

ID	Detail Type	Detail Description	Units
1	Add On	Com Office Finish Low	240

Building 2

ID	Type	NBHD	Occupancy	Built As	Bedrooms	Baths	Rooms
2	Commercial	3901	Light Commercial Utility	Equipment Storage	0	0	0

ID	Square Ft	Condo SF	Total Basement SF	Finished Bsmt SF	Garage SF	Carport SF	Balcony SF	Porch SF
2	864	0	0	0	0	0	0	0

ID	Year Built	% Complete	Stories	Perimeter	Units	Unit Type
2	1973	100	1	84	0	

ID	Length	Width	Make
2	0	0	

ID	Exterior	Roof Cover	Interior	HVAC
2				None

ID	Detail Type	Detail Description	Units

Building 3

ID	Type	NBHD	Occupancy	Built As	Bedrooms	Baths	Rooms
3	Commercial	3901	Miscellaneous OB	Other OB	0	0	0

ID	Square Ft	Condo SF	Total Basement SF	Finished Bsmt SF	Garage SF	Carport SF	Balcony SF	Porch SF
3	1	0	0	0	0	0	0	0

ID	Year Built	% Complete	Stories	Perimeter	Units	Unit Type
3	0	100	0	0	0	

ID	Length	Width	Make
3	0	0	

ID	Exterior	Roof Cover	Interior	HVAC
3				None

ID	Detail Type	Detail Description	Units
3	Add On	Concrete Slab Average	144

Valuation Information

Type	Code	Description	Actual Value	Assessed Value	Acres	Land SqFt
Land	2135	WAREHOUSE/STORAGE-LAND	119,790	34,740	2.500	108,900
Improvement	2230	SPECIAL PURPOSE-IMPROVEMENTS	5,500	1,600	0.000	0
Improvement	2235	WAREHOUSE/STORAGE-IMPS	215,000	62,350	0.000	0
			340,290	98,690	2.500	108,900

Tax Information

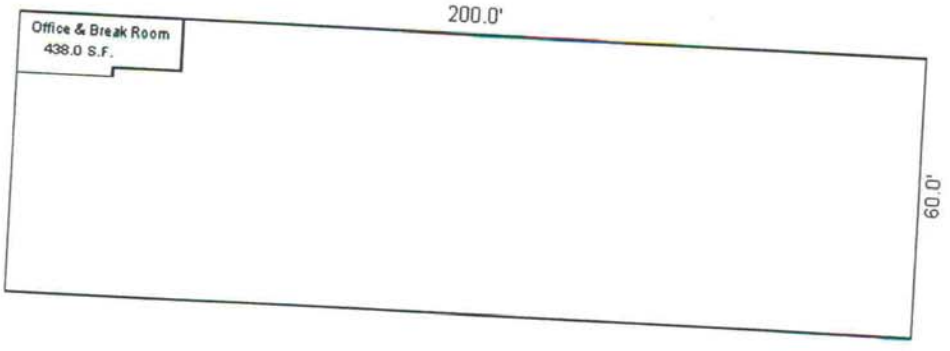
Tax Area	District ID	District Name	Current Mill Levy	Tax Year
1333	0100	WELD COUNTY	16.804	2012
1333	0213	SCHOOL DIST RE1J	47.614	2012
1333	0301	NORTHERN COLORADO WATER (NCW)	1.000	2012
1333	0404	ERIE TOWN	17.146	2012
1333	0512	MOUNTAIN VIEW FIRE	11.747	2012
1333	1050	HIGH PLAINS LIBRARY	3.271	2012
			97.582	

Property Photo

No Photo Available

Property Sketch

Total G.G.A.
12000.0 S.F.
Wood Pole Building with metal siding
Dirt Floor



Sketch by Apex IV™

Tax Account

Summary

Account Id	R5746486
Parcel Number	146718300003
Owners	INA GROUP LLC
Address	6333 APPLES WAY STE 115 LANCASTER, NE 68516
Situs Address	4060 I CR ERIE 000000000
Legal	ERI 24869 PT SW4 18-1-68 BEG AT SE COR L1 BLK4 HUNTS 1ST ADD TO ERIE W TO W LN SEC S214.7' E526' N131.7' E96' N83' TO BEG (2.5A M/L)

Inquiry

As Of 02/27/2012

Payment Type ○ First
● Full

Taxes Due $9,630.37

Total Due $9,630.37

Update

Value

Area Id		Mill Levy
1333 - 1333		97.5820000
	Actual	**Assessed**
WAREHOUSE/STORAGE-LAND - 2135	119,790	34,740
SPEC.PURPOSE-IMPROVEMENTS - 2230	5,500	1,600
WAREHOUSE/STORAGE-IMPS. - 2235	215,000	62,350
Total Value	340,290	98,690
Taxes		$9,630.37

The amounts of taxes due on this page are based on **last year's** property value assesments.

APPENDIX I

COSTIS DOCUMENTATION

COLORADO DEPARTMENT OF LABOR AND EMPLOYMENT

OIL AND PUBLIC SAFETY - RECORDS CENTER

FACILITY NAME	ERIE PRECAST CONCRETE PRODUCTS
FACILITY ADDRESS	4060 WELD CR 1
FACILITY CITY	ERIE
BOX #	760

FACILITY ID # 3520

EVENT ID # 0

RAP # 0

FILE # FAC

SARDONYX CODE

APPENDIX I to §280.3

Notification for Underground Storage Tanks

FORM APPROVED
OMB NO. 2050-0068
APPROVAL EXPIRES 6-30-88

I.D. Number — STATE USE ONLY: 00 5914

Date Received: 5-15-86

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner Notice

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: ☐

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Erie Pre-Cast Concrete Products

Street Address: 4060 W.C.R. 1

County: Weld

City: Erie — State: CO — ZIP Code: 80516

Area Code: 303 — Phone Number: 665-9380

Type of Owner (Mark all that apply ☒)

- ☐ Current
- ☐ Former
- ☐ State or Local Gov't
- ☐ Federal Gov't (GSA facility I.D. no. _____)
- ☒ Private or Corporate
- ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☒)

Facility Name or Company Site Identifier, as applicable:

Street Address or State Road, as applicable:

County:

City (nearest): — State: — ZIP Code:

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐): Donald Zamba Jr.

Job Title: Manager

Area Code: 303 — Phone Number: 665-9380

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed
	Donald Zamba Jr.	5/6/86

CONTINUE ON REVERSE SIDE

59.14.

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS *(Complete for each tank at this location)*

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank *(Mark all that apply ☒)*					
Currently in Use	1				
Temporarily Out of Use					
Permanently Out of Use					
Brought into Use after 5/8/86					
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)					
4. Material of Construction *(Mark one ☒)*					
Steel	1				
Concrete					
Fiberglass Reinforced Plastic					
Unknown					
Other, Please Specify					
5. Internal Protection *(Mark all that apply ☒)*					
Cathodic Protection					
Interior Lining (e.g., epoxy resins)					
None					
Unknown	1				
Other, Please Specify					
6. External Protection *(Mark all that apply ☒)*					
Cathodic Protection					
Painted (e.g., asphaltic)	1				
Fiberglass Reinforced Plastic Coated					
None					
Unknown					
Other, Please Specify					
7. Piping *(Mark all that apply ☒)*					
Bare Steel					
Galvanized Steel	1				
Fiberglass Reinforced Plastic					
Cathodically Protected					
Unknown					
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume *(Mark all that apply ☒)*					
a. Empty					
b. Petroleum					
Diesel					
Kerosene					
Gasoline (including alcohol blends)	1				
Used Oil					
Other, Please Specify					
c. Hazardous Substance					
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances					
d. Unknown					
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)					
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)					

USWLDERI 0021

ERIE PRECAST CONCRETE PRODUCTS
4060 WELD COUNTY RD 1 ERIE
STORAGE LOC: SU 18

...nks

FORM APPROVED
OMB NO 2050-0049
APPROVAL EXPIRES 6-30-88

STATE USE ONLY

I.D. Number 0004920

Date Received 6/11/86

...ORMATION

ground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means

(a) in the case of an underground storage in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stores;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or waste water collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached ☐

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Erie Precast Concrete Products

Street Address
4060 Weld County Road 1

County
Weld

City: Erie | State: Colorado | ZIP Code: 80516

Area Code: 303 | Phone Number: 665-9380

Type of Owner (Mark all that apply ☒)
☐ Current ☐ Former ☐ State or Local Gov't ☐ Federal Gov't (GSA facility I.D. no. ____) ☒ Private or Corporate ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable
4060 Weld County Road 1

Street Address or State Road, as applicable
Weld

County
Erie | Colorado | 80516
City (nearest) | State | ZIP Code

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust land ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐)
Donald Zaruba, Jr.

Job Title
Mgr. owner

Area Code: 303 | Phone Number: 665-9380

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative
Cheryl A. Zaruba - Bookkeeper

Signature
Cheryl A. Zaruba

Date Signed
6-9-86

CONTINUE ON REVERSE SIDE

EPA Form 7530-1 (11-85)

4920

Owner Name (from Section I) FBI-Pre Cast Concrete Products Location (from Section II) 4060 Weld County Rd 1 Erie Co Page No. 1 of 1 Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒)					
Currently in Use	☑	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☐	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	8				
3. Estimated Total Capacity (Gallons)					
4. Material of Construction (Mark one ☒)					
Steel	☑	☐	☐	☐	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☑	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☑	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒)					
Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☑	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☑	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify					
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	/	/	/	/	/
b. Estimated quantity of substance remaining (gal.)					
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

COLORADO DEPARTMENT OF LABOR AND EMPLOYMENT

OIL AND PUBLIC SAFETY - RECORDS CENTER

FACILITY NAME	ERIE PRECAST CONCRETE PRODUCTS
FACILITY ADDRESS	4060 WELD CR 1
FACILITY CITY	ERIE
BOX #	112REG

FACILITY ID # 3520

EVENT ID #

RAP #

FILE #

SARDONYX CODE WLDERI 002

Facility Information Update

Facility ID: 3520

Fac. Name: ERIE PRECAST CONCRETE

Fac. Address: 4068 CT RD

City / Zip: ERIE 80516

Phone #: _____

Owner Name: _____

Owner Address: _____

City / Zip: _____

Contact Name: _____

Contact Add.: _____

City / Zip: _____

Contact Type: ☐ Owner ☐ Operator ☐ Manager ☐ Loc. Contact

REGULATED ASTS

REMOVED

Facility Type (check only one best suited):

☐ Air Taxi (Airline) ☑ Commercial (Non-retail Fac.) ☐ Farm ☐ Federal (Military)
☐ Federal (Non-Military) ☐ Gas Station (Retail Fac.) ☐ Local Government ☐ Petro. Distributor
☐ Railroad ☐ Residential ☐ State Government

Tank Information: **NEW TANK _____** **OR** **EXISTING TANK_____**

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
Install Date					
Tank Type (all that apply)	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment	[ ] UST [ ] Fed. Regulated [ ] AST [ ] Manifolded [ ] Compartment
Status (check only one)	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed	[ ] Currently in use [ ] Perm. Closed [ ] Temp. Closed
Capacity					
Substance (check only one)	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other	[ ] Gasoline [ ] Diesel [ ] Kerosene [ ] Used Oil [ ] Heating Oil [ ] Haz. Substance [ ] Other
Tank Material (check only one)	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.	[ ]Bare Steel [ ]Cath. Prot. Steel [ ]Composite (stl w/FRP) [ ]Epoxy Coated. (lined) [ ]Fiberglass Reinf. Plas.
Tank Options (check only one)	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner	[ ] Double-walled [ ] Lined Interior [ ] Excavation Liner
Piping Type (check only one)	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed	[ ] Pressurized [ ] Suction [ ] Safe Suction [ ] US Suction [ ] Gravity Feed
Pipe Material (check only one)	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic	[ ] Bare Steel [ ] Galvanized Steel [ ] Fiberglass Reinf. Plas. [ ] Copper [ ] Flexible Plastic
Pipe Options (check only one)	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment	[ ]Cathodically Protected [ ]Double-walled [ ]Sec. Containment
Spill/Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill	[ ] Spill [ ] Overfill

Submitted by: _____ **Date:** 3/26/02

APPENDIX J

RESUMES

Resume

MELISSA L. CHALONA, P.E., LEED AP
Environmental Project Manager

EDUCATION

B.S. Environmental Engineering
University of Florida 1995

PROFESSIONAL REGISTRATION

Registered Professional Engineer
Colorado No. 34745
Texas No. 106563
LEED Accredited Professional

TRAINING

Applied Low Impact Development Best Management Practices
USGBC Existing Building LEED Technical Review
OSHA 40-Hour HAZWOPER certified
OSHA HAZWOPER Supervisor
CDOT Certified Erosion Control Supervisor

PROFESSIONAL SOCIETIES

US Green Building Council
American Consulting Engineers Council of Colorado

PROFESSIONAL SUMMARY

Ms. Chalona joined CTL|Thompson in 2008 with 13 years of experience in civil and environmental engineering with 10 of those years in the Front Range area. As a Project Manager in our Fort Collins office, her responsibilities include project management and consultation on all environmental related issues.

Ms. Chalona has developed Storm Water Management Plans (SWMP), Spill Prevention Control and Countermeasure (SPCC) Plans, Oil Spill Contingency Plans and Erosion and Sedimentation Control Plans. She is involved in Phase I and Phase II Environmental Site Assessments, environmental compliance audits, and groundwater remediation. She has ten years project engineering experience in stormwater site design, floodplain modeling, and erosion and sedimentation control.

As a project manager, Ms. Chalona's responsibilities include project coordination with clients, contractors, other engineers, and staff engineers.

PROJECT RELATED QUALIFICATIONS

University of Colorado, Boulder, Colorado
Conducted regulated building material surveys for the Smiley Court and Kittredge Commons building deconstruction projects. Coordinated recycling and reuse of building materials.

University of Wyoming, Laramie, Wyoming
Performed regulated building material surveys for Downey Hall and the Ivinson Building.

ViaWest, Inc. Colorado, Utah, Oregon, Texas, Nevada
Project manager for field assessment, design, and regulatory compliance for SPCC plans for multiple facilities satisfying federal and state requirements for approximately 169,000 gallons of petroleum storage.

Globeville Dewatering Groundwater Remediation, Denver, Colorado
Onsite remediation of contaminated groundwater during construction dewatering including permit compliance, water testing, and remediation process.

City of Loveland – Brose Site Phase I and II, Loveland, Colorado
Performed property acquisition Phase I and II Environmental Site Assessment for previously mined land.

Larimer County, Colorado
Developed SWMP for 19 Larimer County Facilities totaling over 120 acres. Stormwater Manager Training for County Staff.

Auraria Higher Education Center, Denver, Colorado
Conducted field assessment, design and regulatory compliance for SPCC and Oil Spill Contingency Plan for campus in downtown Denver adjacent to Platte River and Cherry Creek.

Resume

MATTHEW L. WARDLOW, P.E.
Environmental Department Manager

EDUCATION

B.S. Engineering and Policy
Washington University,
St. Louis, MO, 1993

TRAINING & CERTIFICATIONS

40 Hour OSHA Training
Confined Space Training
Mold Remediation Technician Training
Principals of Forced Air Remediation
Asbestos Inspector
Air Monitoring Specialist

PROFESSIONAL REGISTRATION

Registered Professional Engineer,
Colorado No. 36223

PROFESSIONAL SOCIETIES

American Society of
Foundation Engineers;
Colorado Hazardous Waste
Management Society;
Building Owners and Managers
Association, Instructor

PROFESSIONAL SUMMARY

Mr. Wardlow joined CTL|Thompson, Inc. in 2004, having ten years of previous experience providing environmental consulting throughout Colorado. He currently serves as the Manager for CTL|Thompson's Denver-based Environmental Consulting Division, which includes staff supervision, project management, and client relations.

Mr. Wardlow has a variety of technical expertise in Phase I and II Environmental Site Assessments, underground storage tank removals, site characterizations, CDPHE Voluntary Cleanup applications, mold and moisture evaluations, and asbestos consulting services. Mr. Wardlow reviews nearly every Phase I ESA the Denver Branch publishes, making sure that the latest standards are followed. He has developed a reputation as a consistent and reliable consultant for his clients, which include builders, lenders, attorneys, and government representatives. He encompasses a variety of project experience including transportation facilities, municipal buildings, residential developments, historical sites, medical facilities, and wastewater treatment plants.

PROJECT EXPERIENCE

3960 High Street, Denver, Colorado
Project Manager for Phase I and II ESA and Tank removal. Phase II ESA was performed out of concern of prolonged industrial use on site and surrounding area. CTL discovered Carbon Tetrachloride and Chloroform above ground water standards, but was able to demonstrate that the more stringent standard of Carbon Tet was inapplicable, and that Chloroform is ubiquitous in lab results. Client successfully sold this industrial property.

Smith Property, Near Rocky Flats Industrial Park, Arvada, Colorado
This 500-acre parcel is planned for development but is potentially impeded by ground water and surface water flows from the RFIP to the north, as shown by our Phase I and II ESA. CTL was able to perform an in-depth hydrological study and demonstrate that the planned development area is disconnected from the ground water impacts. CDPHE issued a No Action Determination, agreeing with our assertion.

High Profile Industrial Campus, Louisville, Colorado
Prepared the Phase I ESA prior to purchase of this industrial campus. This complicated Phase I ESA revealed a lesser degree of environmental documentation for the older buildings. Recommended a Phase II ESA near the older buildings and drum storage. Solvents were found in the ground water. CTL saved an undisclosed amount of money for our client by discovering this prior to purchase.

Stapleton Redevelopment, Denver, Colorado
Performed Phase I ESAs on various properties around the Stapleton Redevelopment Site. The former Stapleton Airport has undergone a multitude of cleanups and studies which have included fuel farms, the concourses, the ports-of-call plumes, rental car operations, de-icing agents, asbestos in buildings and in the soils, and offsite plumes of TCE.

Other Phase I ESAs:
Ratliff and Richers Properties, Adams County, Trust for Public Land
San Tropez Apartments, Denver, Colorado, The City of Glendale
South Bryant Street, Englewood, Colorado, Liberty Savings Bank
20 Mining Properties, for Boulder County Parks and Open Space, Colorado

Mold and Moisture Evaluations, Various Builders, Colorado
Projects have included odor complaints, moisture intrusion evaluations, mold evaluations, air sampling, and crawl space observation.

Industrial Park, North Denver, Colorado
Project Manager for surface sampling of industrial site, where the company used the site for storage and cutting of old telephone wiring with a lead component. This project involved lead dust wipes sampling and recommendations on remediation.

Asbestos Surveys, Denver Metro Area, Colorado
Projects involved identifying and sampling all suspect materials.

Troxel Residential Property, Carbondale, Colorado
As Project Manager, Mr. Wardlow was able to coordinate a contractor and obtain an UST Closure permit on an expedited basis. Extensive soil removal was needed at this UST installation. Diesel-contaminated soils were segregated and characterized properly. The client was able to obtain tank closure on a rapid turnaround basis.

Expert Witness Background

Brandaw v. Ryland Homes et al.
Douglas County District Court, 04CV767
Deposition: November 1, 2005
Case involves potential moisture intrusion through exterior of home, and potential mold concerns

Kleckner v. Keller Homes, Inc.
Claim No. 961-010091
Case involved alleged moisture intrusion into basement and mold concerns
Testified October 11, 2006

The presence of asbestos and lead-based paint can be an environmental risk with the potential for extensive costs during renovation, remodeling, or demolition of buildings. Lead-based paint is of concern in pre-1978 buildings. Construction and renovation work for buildings containing asbestos and lead-based paint may be subject to the Federal and State regulations. The cost of asbestos and lead-based paint management or abatement should be considered prior to property transfer. Consequently, CTL recommends performing a lead-based paint and asbestos survey prior to purchase of the buildings.

12.0 QUALIFICATIONS

This Phase I ESA report was prepared and reviewed by licensed Professional Engineers (PE) registered in the State of Colorado. The resumes of the individuals conducting this Phase I ESA are included in Appendix J.

Ms. Chalona declares that, to the best of her professional knowledge and belief, she meets the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject Site. We have developed and performed the appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR Part 312.

We believe that this investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the locality of the project. No warranty, express or implied, is made.

CTL|THOMPSON, INC.

Reviewed by:

Melissa L. Chalona, PE, LEED AP
Environmental Department Manager

Matthew L. Wardlow, PE
Quality Assurance Reviewer

Addressee (3 copies)

Preliminary Geotechnical Engineering Report

Proposed Residential Development
4060 East County Line Road
Erie, Colorado

Prepared for:
Diverge Homes
1108 Grant Avenue
Louisville, CO 80027

Prepared by:
Cole Garner Geotechnical
CGG Project No.: 20.22.172

October 28, 2020

Cole Garner Geotechnical
1070 W. 124th Ave, Ste. 300
Westminster, CO 80234
303.996.2999

October 28, 2020

Diverge Homes
1108 Grant Avenue
Louisville, CO 80027

Attn: Mr. Nick Jacobs

Re: Preliminary Geotechnical Engineering Report
Proposed Residential Development
4060 East County Line Road
Erie, Colorado
CGG Project No. 20.22.172

Cole Garner Geotechnical (CGG) has completed a preliminary geotechnical engineering investigation for the proposed residential development to be located at the subject address in Erie, Colorado. This study was performed in general accordance with our proposal number P20.22.213, executed September 6, 2020.

This geotechnical summary should be used in conjunction with the entire report for design and/or construction purposes. It should be recognized that specific details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein. The section titled General Comments should be read for an understanding of the report limitations.

- **Subsurface Conditions:** The near-surface soils at the site primarily consisted of lean clay with varying amounts of sand extending to depths of about 7 to 12 feet below existing site grades. Existing man-made fill comprised of silty sand was encountered in Boring No. 5 and extended to a depth of about 6 feet below existing site grade (presumed to be associated with previous development). Earthen fill may also be present in areas of the site where prior development was razed (structures, utilities, etc.). Granular soils were present underlying the clayey soils and consisted of fine to coarse sands with varying amounts of silt, clay, and gravel. Sedimentary bedrock comprised of claystone or sandstone was encountered underlying the sand and gravel soils (in Boring Nos. 1, 7, and 9) at depths of about 31 to 33 feet below existing site grades and extended to the full depth of exploration. Groundwater was encountered at depths of about 17 to 20 feet below existing site grades. Other specific information regarding the subsurface conditions is shown on the attached Boring Logs.

- **Existing Fill Soils:** Existing man-made fill was encountered in Boring No. 5 to a depth of about 6 feet below existing site grade and may be present within other portions of the site, particularly where elements of past development have been removed from the site. ***We have no information whether***

this fill was placed under the testing and observation of a geotechnical engineer. The field penetration value of a sample of the fill was loose in relative density. Additionally, it is possible that zones or layers of poorly compacted fill may be encountered on the site or unsuitable materials (such as organics and construction debris) may be present within or buried by the fill. To address this risk, we recommend removal, screening and recompaction of the fill materials from below future foundations, floor slabs and other movement-sensitive features as part of the site preparation, unless further evaluated and approved by CGG during construction.

- **Structural Considerations:** It is our opinion that the proposed residential buildings for the project can be supported on conventional spread-type footings when bearing on approved native soils or a zone of newly-placed engineered fill. In order to provide for more uniform support, existing fill soils (where present) should be removed and recompacted to a relatively uniform depth below the entire footprint of the proposed structures.

  We believe conventional slab-on-grade floors can be utilized with a relatively low risk of post-construction floor slab movement; however, slab-on-grade floors will be subject to some movement, even when bearing on low expansive, properly compacted subgrade. If movement and potential cosmetic distress cannot be tolerated, the use of structural floor systems, supported on the foundation over a crawlspace, should be considered for finished areas.

- **Future Geotechnical Studies:** The scope of services for this current study included a general evaluation of subsurface conditions in order to identify main geotechnical issues or concerns that may affect land development. Supplemental design-level geotechnical exploration(s), with additional borings for structures and pavements will be required in order to develop design-level recommendations for structures and to confirm and/or modify the preliminary recommendations and conclusions contained in this report. In addition, a formal pavement design study will be required for final design of any public road improvements.

- **Surface Drainage:** ***The amount of movement associated with foundations, floor slabs, flatwork, etc. will be related to the wetting of underlying supporting soils/bedrock. Therefore, it is imperative the recommendations outlined in the "Grading and Drainage" section of this report be followed to reduce potential movement.***

We appreciate being of service to you in the geotechnical engineering phase of this project, and are prepared to assist you during the construction phases as well. Please do not hesitate to contact us if you have any questions concerning this report or any of our testing, inspection, design and consulting services.

Sincerely,

Cole Garner Geotechnical

Glenn D. Ohlsen, P.E.
Project Engineer

Andrew J. Garner, P.E.
Principal, COO

Copies to: Addressee (1 PDF copy)

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PRELIMINARY GEOTECHNICAL ENGINEERING REPORT

PROPOSED RESIDENTIAL DEVELOPMENT
4060 EAST COUNTY LINE ROAD
ERIE, COLORADO

CGG Project No. 20.22.172
October 28, 2020

INTRODUCTION

This report contains the results of our geotechnical engineering exploration for the proposed residential development to be constructed at the subject address in Erie, Colorado. This study was performed in general accordance with our proposal number P20.22.213, executed September 6, 2020.

The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil and bedrock conditions
- Geologic conditions and hazard mitigation
- Groundwater conditions
- Site preparation and earthwork
- Preliminary structure foundations
- Below-grade construction
- Preliminary pavement sections
- Surface and subsurface drainage

The recommendations contained in this report are based upon the results of field and laboratory testing, engineering analyses, our experience with similar subsurface conditions and structures, and our understanding of the proposed project.

PROJECT INFORMATION

We understand the proposed project will include development of the vacant 2.73-acre parcel for residential use. Conceptual development plans have not yet been developed; however, we understand that development will include limited site grading, installation of underground utilities, and construction of public and/or private paved drives/roadways to serve a residential development comprised of duplex and triplex buildings. We assume the homes will include one to two stories of wood framing supported on reinforced concrete foundations. We assume that basement and/or crawlspace foundations will be incorporated into the design of the buildings. Attached and/or detached, at-grade garages will also be

included. ***The site was previously developed as a pre-cast concrete manufacturing plant; however, the client has been told that all elements of the previous development have been removed from the site.***

Based on existing topography, we assume some limited site grading will be required for the site, with maximum earthen cut/fill on the order of about 3 feet, or more, to bring the site to construction grade.

If our assumptions above are not accurate, or if you have additional useful information, please inform us as soon as possible.

SITE EXPLORATION PROCEDURES

The scope of the services performed for this project included a preliminary-phase subsurface exploration program, laboratory testing, and engineering analysis.

Field Exploration: Our scope of services for this study included geotechnical exploration of the subsurface materials at nine (9) locations on the site, as shown on the Boring Location Diagram included in Appendix A.

Borings were advanced to depths ranging from about 25 to 35 feet below existing site grades with a track-mounted drilling rig utilizing 4-inch diameter, solid-stem auger. Our field personnel recorded a lithologic log of each boring during the drilling operations. At selected intervals, samples of the subsurface materials were obtained by driving Modified California barrel samplers. Penetration resistance measurements were obtained by driving the sample barrel into the subsurface materials with a 140-pound automatic hammer falling 30 inches. The penetration resistance value is a useful index to the consistency, relative density or hardness of the materials encountered.

Groundwater measurements were made in each boring at the time of site exploration and again four days later. Borings were loosely backfilled with the auger cuttings upon completion of groundwater measurements.

Laboratory Testing: Samples retrieved during the field exploration were returned to the laboratory for observation by the project geotechnical engineer, and were classified in general accordance with the Unified Soil Classification System described in Appendix C. Bedrock was classified according to the General Notes for Rock Classification. At that time, an applicable laboratory-testing program was formulated to determine engineering properties of the subsurface materials. Following the completion of the laboratory testing, the field descriptions were confirmed or modified as necessary, and Boring Logs were prepared. These logs are presented in Appendix A.

Laboratory test results are presented in Appendix B. These results were used for the geotechnical engineering analyses and the development of foundation and earthwork recommendations. Laboratory tests were performed in general accordance with the applicable local or other accepted standards.

Selected soil and bedrock samples were tested for the following engineering properties:

- Water content
- Dry density
- Swell/Consolidation
- Grain size
- Plasticity Index
- Water-soluble sulfates

SITE CONDITIONS

The site consists of an approximate 2.73-acre vacant lot located at the subject address in Erie, Colorado. The lot is bound by East County Line Road to the west, Balcolm Street to the south, and residential development to the north and east. ***As discussed, the site was previously developed as a pre-cast concrete manufacturing plant; however, the client has been told that all elements of the previous development have been removed from the site.*** At the time of our field exploration, the site was covered with a low growth of grass and weeds. The site appears relatively flat. Based on review of USGS mapping, the surrounding area has a general downward slope to the east, toward the Coal Creek drainage.

SUBSURFACE CONDITIONS

Geology: Surficial geologic conditions at the site, as mapped by the U.S. Geological Survey (USGS) ([1]Colton and Anderson, 1977), consist of Eolium of Holocene to Pleistocene Age. This material is described to include wind-blown clay, silt, and sand.

Bedrock mapped in the area consists of the Laramie Formation of Upper Cretaceous Age. This formation within this area has been reported to include interbedded claystone, shale, sandstone, and coal/lignite.

Mapping completed by the Colorado Geological Survey ([2]Hart, 1972) indicates the site is located in an area of "Moderate Swell Potential". This category generally includes bedrock formations and some surficial deposits. The soils encountered in our borings exhibited low expansive potential.

[1] Colton, R.B., and Anderson, L.W., 1977, ***Preliminary Geologic Map of the Erie Quadrangle, Boulder, Weld, and Adams Counties, Colorado***, United States Geological Survey, Map MF-882.

[2] Hart, Stephen S., 1972, ***Potentially Swelling Soil and Rock in the Front Range Urban Corridor, Colorado***, Colorado Geological Survey, Sheet 1 of 4.

Based upon review of the maps showing the extent of mining in the Boulder-Weld coal field for the area ([3]Amuedo and Ivey, 1975), the subject parcel is not located within areas of subsidence potential due to past mine workings. However, the lot is mapped near or adjacent to areas mapped as having "Low to Severe Subsidence Hazard". We understand that the referenced mapping studies are generally now considered out of date and that additional studies have likely been conducted that included the subject parcel. We believe these may be on file with the Town of Erie. A more detailed evaluation of subsidence potential is beyond the scope of this study. The Town of Erie and/or the Colorado Geological Survey should be contacted for additional information.

No other geologic hazards were identified at the site. Seismic activity in the area is anticipated to be low, and the property should be relatively stable from a structural standpoint. With proper site grading around proposed structures, erosional problems at the site should be reduced.

Soil and Bedrock Conditions: The near-surface soils at the site primarily consisted of lean clay with varying amounts of sand extending to depths of about 7 to 12 feet below existing site grades. Existing man-made fill comprised of silty sand was encountered in Boring No. 5 and extended to a depth of about 6 feet below existing site grade (presumed to be associated with previous development). Earthen fill may also be present in areas of the site where prior development was razed (structures, utilities, etc.). Granular soils were present underlying the clayey soils and consisted of fine to coarse sands with varying amounts of silt, clay, and gravel. Sedimentary bedrock comprised of claystone or sandstone was encountered underlying the sand and gravel soils (in Boring Nos. 1, 7, and 9) at depths of about 31 to 33 feet below existing site grades and extended to the full depth of exploration. Other specific information regarding the subsurface conditions is shown on the attached Boring Logs.

Field and Laboratory Test Results: Field test results indicate that the clayey soils varied from medium stiff to very stiff in consistency. The non-plastic sand soils varied from very loose to dense in relative density, while a sample of the sandy fill was loose. The bedrock was very hard based on results of penetration testing.

Laboratory test results of select samples of the clayey soils exhibited moderate plasticity and low expansive potential at existing moisture contents. The silty sand soils are considered non-plastic and non-expansive. Testing of select samples for the presence of water-soluble sulfates indicated concentrations ranging from nil to 300 parts per million (ppm).

[3] Amuedo, and Ivey, 1975, ***Coal Mine Subsidence and Land Use in the Boulder-Weld Coalfield, Boulder and Weld Counties, Colorado,*** Colorado Geological Survey.

Groundwater Conditions: Groundwater was encountered in our borings during drilling at depths ranging from about 18 to 22 feet below existing site grades. When checked four days later, groundwater was measured in the borings at depths of about 17 to 20 feet below existing site grades. Boring No. 3 was partially caved-in at that time so that groundwater measurement was not possible.

Based upon review of U.S. Geological Survey Maps ([4]Hillier and Schneider, 1979), regional groundwater beneath the project area occurs in colluvial, landslide, and windblown deposits, and in consolidated sedimentary rocks at depths generally from 5 to 20 feet below the ground surface.

Subsequent to development and irrigation of lawns, additional perched groundwater may likely develop at the site. Our experience indicates that if not controlled, this perched groundwater can become a nuisance for homeowners and possibly cause damage to infrastructure and structures. Maintaining proper surface drainage can help reduce the potential impacts of perched groundwater; however, prudent subsurface drainage systems could also be used to collect and divert perched groundwater. This is discussed in more detail in subsequent portions of this report.

ENGINEERING RECOMMENDATIONS

Geotechnical Considerations: Based on the information obtained from our preliminary subsurface exploration, laboratory testing of selected samples, and a cursory review of geologic conditions, it is our opinion that the site appears suitable for development of the proposed project; however, the following main geotechnical conditions with respect to the proposed development are outlined below.

- **Existing Fill Soils:** Existing man-made fill comprised of silty sand was encountered in Boring No. 5 and extended to a depth of about 6 feet below existing site grade. Earthen fill should be assumed to also be present (placed) within areas of the site where elements of the prior development were razed (structures, utilities, etc.). ***We have no information whether this fill was placed under the testing and observation of a geotechnical engineer. The field penetration value of a sample of the fill was loose in relative density. Additionally, it is possible that zones or layers of poorly compacted fill may be encountered on the site or unsuitable materials (such as organics and construction debris) may be present within or buried by the fill. To address this risk, we recommend removal, screening and recompaction of the fill materials from below future foundations, floor slabs and other movement-sensitive features as part of the site preparation, unless further evaluated and approved by CGG during construction.***

- **Structural Considerations:** It is our opinion that the proposed residential buildings for the project can be supported on conventional spread-type footings when bearing on approved native soils or a zone of newly-placed engineered fill. In order to provide for more uniform support, existing fill soils

[4] Hillier, Donald E.; and Schneider, Paul A., Jr., 1979, ***Depth to Water Table (1976-1977) in the Boulder – Fort Collins – Greely Area, Front Range Urban Corridor, Colorado***, United States Geological Survey, Map I-855-I.

(where present) should be removed and recompacted to a relatively uniform depth below the entire footprint of the proposed structures.

We believe conventional slab-on-grade floors can be utilized with a relatively low risk of post-construction floor slab movement; however, slab-on-grade floors will be subject to some movement, even when bearing on low expansive, properly compacted subgrade. If movement and potential cosmetic distress cannot be tolerated, the use of structural floor systems, supported on the foundation over a crawlspace, should be considered for finished areas.

- **Future Geotechnical Studies:** The scope of services for this current study included a general evaluation of subsurface conditions in order to identify main geotechnical issues or concerns that may affect land development. Supplemental design-level geotechnical exploration(s), with additional borings for structures and pavements will be required in order to develop design-level recommendations for structures and to confirm and/or modify the preliminary recommendations and conclusions contained in this report. In addition, a formal pavement design study will be required for final design of any public road improvements.

Earthwork: The following presents recommendations for site preparation, excavation, subgrade preparation and placement of engineered fills on the project. The recommendations presented for design and construction of earth-supported elements including foundations, slabs and pavements are contingent upon following the recommendations outlined in this section.

Earthwork on the project should be observed and evaluated by CGG. The evaluation of earthwork should include observation and testing of engineered fill, subgrade preparation, foundation bearing soils, and other geotechnical conditions exposed during the construction of the project.

- **Site Preparation:** Strip and remove existing vegetation and other deleterious materials from proposed building and pavement/flatwork areas. Stripped materials consisting of vegetation and organic materials should be wasted from the site or used to revegetate landscaped areas or exposed slopes after completion of grading operations. Existing trees, root balls and laterally oriented roots greater than about 1-inch in diameter should be removed from all construction areas.

  The stability of subgrade soils may be affected by precipitation, repetitive construction traffic, or other factors. For some areas, workability may be improved by scarifying and aeration. ***If more unstable conditions are encountered or develop during construction, stabilization can generally be economically performed by placing and compacting or "crowding" larger-sized crushed aggregate (4 to 6 inches in diameter) into the high moisture content, weak soils until a stable base is achieved.*** Use of lime, fly ash, kiln dust, cement or geotextiles could also be considered as a stabilization technique. Laboratory evaluation is recommended to determine the effect of chemical stabilization

on subgrade soils prior to construction. The geotechnical engineer should be contacted to provide for further guidance where unstable conditions are encountered.

- **Existing Fills:** Existing man-made fill comprised of silty sand was encountered in Boring No. 5 and extended to a depth of about 6 feet below existing site grade. Earthen fill should be assumed to also be present (placed) within areas of the site where elements of the prior development were razed (structures, utilities, etc.).

  The field penetration value of a sample of the fill was loose in relative density. Additionally, it is possible that zones or layers of poorly compacted fill may be encountered on the site or unsuitable materials (such as organics and construction debris) may be present within or buried by the fill. With no further documentation regarding placement and compaction, we do not believe the fill is suitable for support of the proposed development in its current state.

  To address the inherent risk associated with undocumented fill, we recommend removal, screening and recompaction of the fill materials from below future foundations, floor slabs, pavements, and other movement-sensitive features as part of the site preparation, unless further evaluated and approved by CGG during construction.

  In order to provide for more uniform support and help limit differential movement, existing fills (where present below proposed structures) should be removed to a relatively uniform depth below each future structure. This mitigated zone should also extend a minimum of 5 feet beyond the outside edge of the foundations.

- **Excavations:** It is anticipated that excavations for the proposed construction can be accomplished with conventional earthmoving equipment. The clays are expected to stand on relatively steep slopes; however, ***caving sand soils are also present at the site. The individual contractor(s) is responsible for designing and constructing stable, temporary excavations as required maintaining stability of both the excavation sides and bottoming. All excavations should be sloped or shored in the interest of safety following local and federal regulations, including current OSHA excavation and trench safety standards. Based on our evaluation, the sand soils classify as Type C soils according to OSHA excavation standards and the sides of open excavations should be sloped at a maximum of 1-½:1 (horizontal to vertical), unless the contractor's OSHA competent personnel allow for steeper side slopes.***

  As a safety measure, it is recommended that all vehicles and soil piles be kept to a minimum lateral distance from the crest of the slope equal to no less than the slope height. The exposed slope face should be protected against the elements.

- **Fill Materials:** Clean on-site soils or approved imported materials may be used as fill material. Imported soils (if required) should conform to the following:

Gradation	Percent finer by weight (ASTM C136)
6"	100
3"	70-100
No. 4 Sieve	50-100
No. 200 Sieve	70 maximum

  - Liquid Limit ..... 35 (max)
  - Plasticity Index ..... 15 (max)
  - Maximum expansive potential (%)* 0.5

  *Measured on a sample compacted to approximately 95 percent of the ASTM D698 maximum dry density near optimum water content. The sample is confined under a 500 psf surcharge and submerged.

- **Fill Placement and Compaction:** Clean on-site soils or approved imported materials may be used as fill material. If imported soils are required, we should be contacted to evaluate samples of proposed fill materials prior to importation. General site fill and fill placed below foundations and floor slabs should be placed and compacted in horizontal lifts, using equipment and procedures that will produce recommended moisture contents and densities throughout the lift as recommended below:

Item	Description
Fill Materials	On-site soils (3 to 4 inch fragments max) Imported fill, if required, should meet the specifications above
Fill Lift Thickness	8 to 12 inches or less in loose thickness
Compaction Requirements	Clayey soils: 95% of standard Proctor dry density (ASTM D698) Non-plastic sand soils: 95% of modified Proctor dry density (ASTM D1557)
Moisture Content	Clayey soils: Optimum to +4% above optimum moisture content Non-plastic sand soils: -2% below to +2% above of optimum Pavement Subgrade: Optimum to +2% above optimum in pavement areas

At a minimum, fill soils placed for sub-excavation fill, site grading, utility trench backfill and foundation backfill should be tested to confirm that earthwork is being performed according to our recommendations and project specifications. Subsequent lifts of fill should not be placed on previous lifts if the moisture content or dry density is determined to be less than specified.

We recommend engineered fill be tested for moisture content and compaction during placement on a full-time basis during any mass grading and/or sub-excavation work. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.

Beneath pavements, moisture levels should be maintained low enough to allow for satisfactory compaction to be achieved without the fill material pumping when proof-rolled.

Final Grading, Surface Drainage and Landscaping: All grades must be constructed to provide positive drainage away from structure(s) during construction, and it is imperative that grades be maintained throughout the life of the proposed building(s). ***Water permitted to pond near or adjacent to the perimeter of structure (either during or post-construction) can result in significantly higher soil movements than those discussed in this report. As a result, any estimations of potential movement described in this report cannot be relied upon if positive drainage is not constructed and maintained, and water is allowed to infiltrate the supporting subgrade.***

We typically recommend exposed ground around foundations be sloped at a minimum of 10 percent grade for at least 10 feet beyond the perimeter of the building, where possible. Flatter slopes may be appropriate in areas where site constraints require. The use of swales, chases and/or area drains may be required to facilitate drainage in unpaved areas around the perimeter of the building. ***In all cases, the grade should slope a minimum of 5 percent away from structures in accordance with the applicable building code.*** After building construction and prior to completion of landscaping, we recommend that verification of final grading be performed to document that positive drainage, as described above, has been achieved. A review of grading should also be performed after landscaping to assure grades have been maintained. Areas where foundation backfill has settled should be repaired immediately to prevent ponding of water adjacent to foundations.

Based on our experience, roof drain downspouts tend to deliver large amounts of water near foundations. ***Downspouts should discharge on pavements or be extended away from the structure a minimum of 5 to 10 feet through the use of splash blocks or downspout extensions.*** Roof drains may also be designed to discharge to storm sewers by solid, rigid PVC pipe or daylighted to a detention pond or other appropriate outfall, however, a Civil Engineer should be consulted to design the system if this option is considered. We do not recommend discharging flow below the ground surface using flexible pipe, as pipe grades and pipe integrity are difficult to maintain using this product. Outfalls should be protected from damage, blockage, and small animals.

Landscaped irrigation adjacent to foundations should be eliminated where possible or minimized to only limited drip irrigation. Sprinkler mains and spray heads should be located a minimum of 5 feet away from the buildings. We recommend the use of Xeric landscaping, requiring little or no irrigation,

be used within 5 feet of foundations. If drip irrigation is required in this zone, systems should be timed to provide only the amount of water needed to sustain growth. Irrigation systems should be frequently checked for proper performance and any breakages fixed as soon as possible. Planters located adjacent to the structure should preferably be self-contained (planter boxes, potted landscaping, etc.), if possible. Root systems from larger shrubs and trees can cause excessive drying of foundation soils, and therefore, should be planted far enough away from foundations that main root systems do not encroach within 5 feet of foundations.

Backfill against footings, exterior walls and in utility and sprinkler line trenches should be well compacted and free of all construction debris to reduce the possibility of moisture infiltration.

Conceptual Structural Considerations: Based on the subsurface conditions at the site and the nature of the proposed structures, the site is suitable for foundation construction commonly used in the region. Actual foundation designs should be based on additional geotechnical exploration and evaluation of the soil/bedrock conditions for each structure once site layout is determined.

- **Shallow Foundations:** Provided mitigation of any unsuitable soils (existing fills, soft/loose soils, etc.), if present, is performed below proposed buildings, we believe spread footing foundations should be suitable for lightly-loaded structures. We estimate post-construction movement of shallow foundations would be about one inch, typical for the region. Spread footings bearing on approved soils may be preliminarily designed for bearing pressures on the order of 1,500 to 2,000 pounds per square foot (psf).

- **Below-Grade Construction:** Groundwater was encountered at depths of about 17 to 20 feet below existing site grades. Based on these observations, basement construction at typical depths (maximum 8 to 9 feet below finished site grades) is feasible for the site. However, subsequent to development and irrigation of lawns, additional perched groundwater may likely develop at the site. Our experience indicates that if not controlled, this perched groundwater can become a nuisance for homeowners and possibly cause damage to infrastructure and structures. Maintaining proper surface drainage can help reduce the potential impacts of perched groundwater; however, prudent subsurface drainage systems could also be used to collect and divert perched groundwater. Foundation drainage systems typically include a perforated pipe, embedded in gravel, placed in a trench around the perimeter of the foundation that is sloped to a low point. Details of typical perimeter drain systems are included in Appendix C.

- **Seismic Considerations:** Based on the soil conditions encountered in the test holes drilled on the site, we estimate that a Site Class D is appropriate for the site according to the 2015 International Building Code (Section 1613.3.2 referencing Table 20.3-1 of ASCE 7, Chapter 20). This parameter was estimated based on extrapolation of data beyond the deepest depth explored, using methods

allowed by the code. Actual shear wave velocity testing/analysis and/or exploration to 100 feet was not performed.

- **Interior, Non-structural Floor Slabs:** We believe that lightly-loaded floor slabs bearing on newly-placed engineered fill or approved native soils will likely provide acceptable performance at the site. Even when bearing on low-expansive soils, we estimate that normal movement of unreinforced or lightly reinforced slab-on-grade floors could still occur; however, we believe there is low risk of excessive movements. If floor slab movement and cosmetic distress cannot be accepted, the use of a structural floor system, supported on the foundation over a crawlspace, should be considered for finished areas.

  Typical precautions used to manage movement of slab-on-grade floors include isolating plumbing and HVAC equipment, providing void space beneath partition walls, proper construction of closely spaced control joints, etc. Cosmetic distress such as drywall cracking, racking of door frames, etc. may result from slab movement in finished spaces.

Conceptual Pavement Thickness Design: The preliminary design of private pavements for the project is based on the procedures outlined in the 1993 *Guideline for Design of Pavement Structures* by the American Association of State Highway and Transportation Officials (AASHTO) and the Colorado Department of Transportation (CDOT). Any public roadway improvements would need to conform to the Town of Erie design and construction standards, including the preparation of a pavement design. The referenced design methods are based on the subgrade soil support properties and anticipated traffic values.

- **Existing Fill:** As discussed, existing man-made fill was encountered in Boring No. 5 to a depth of about 6 feet below existing site grade and may be present within other areas of the site. We recommend further evaluation of the fill be performed with a series of test pits and a thorough proofroll of the pavement subgrade soils. Where any unsuitable soils are encountered, removal and recompaction will be required. ***At a minimum, the subgrade materials should be scarified, moisture-conditioned and recompacted to a depth of 12 inches*.**

- **Subgrade Soil for Pavement Support:** The near surface soils at the site consisted of sandy lean clays and clayey sands. The clayey subgrade soils are generally considered to provide for poor pavement support. Based on the properties of the clay subgrade soils, we have estimated an R-value of 5, corresponding to a resilient modulus of 3,025 psi for these soils. Likewise, a modulus of subgrade reaction (K-value) of 100 pounds per cubic inch (pci) was used for design of rigid concrete pavements.

- **Assumed Traffic:** We assume that pavements associated with the project will include private drive lanes, driveways, fire lanes, and surface parking for automobiles and light trucks. We assume that private pavements will be surfaced with either asphalt concrete or Portland cement concrete. Any improvements to adjacent public roadways will need to be designed and constructed according to the governing standards.

Based on our experience with similar projects, the following traffic criteria were used for determining pavement thicknesses using a design life of 20 years:

- Driveways and parking stalls - maximum daily traffic of 1,000 cars per day (equivalent single-axle loads, ESAL's of 22,000)
- Site Access, Main Drives and Fire lanes – up to 5 trips/day by single-axle delivery trucks per day, 1 combined-axle truck per day, 1 trash truck per day, occasional fire truck traffic (80,000 pounds maximum) plus maximum daily traffic of 1,000 cars per day (73,000 ESAL's)

The owner should review these assumptions, and we should be contacted to confirm or modify these resulting pavement sections, if needed.

- **Preliminary Pavement Sections:** Recommended alternatives for flexible and rigid pavements are summarized for each traffic area as follows:

Traffic Area	Alternative	Preliminary Pavement Thickness (Inches)		
		Asphalt Concrete Surface	Aggregate Base Course	Portland Cement Concrete
Light-Duty Automobile and Light Truck Parking Only	A	5-½ to 6	--	--
	B	4 to 4-½	6	--
	C	--	--	5
Heavy-Duty Private Drives, Fire Lanes, Delivery truck access	A	6-½ to 7	--	--
	B	4 to 5	6 to 9	--
	C	--	--	6

Each alternative should be investigated with respect to current material availability and economic conditions. Pavement thicknesses recommended are based on approved subgrade materials being properly moisture conditioned and compacted prior to paving.

For areas subject to concentrated and repetitive loading conditions such as dumpster pads, and ingress/egress aprons, we recommend using a Portland cement concrete pavement with a thickness of at least 6 inches. For dumpster pads, the concrete pavement area should be large enough to support the container and tipping axle of the refuse truck.

- **Temporary Unpaved Access Drives:** In our opinion, the use of aggregate base course or crushed stone may be considered for use in constructing temporary access roads for construction traffic and/or all-weather fire truck access. In order to provide an all-weather surface, we recommend that the section include a minimum of 12 inches of aggregate base course (CDOT Class 5 or 6) or a

minimum of 8 inches of 3-inch minus crushed aggregate (or recycled concrete). In our opinion, these sections would be suitable for the support of delivery and concrete trucks and occasional fire truck access (80,000 pounds maximum) for the anticipated duration of a typical project of this magnitude. The contractor should be responsible for monitoring the condition of unpaved drive lanes, including the repair and maintenance of the drive lanes throughout its use in order to provide the required access. We believe it is likely that these aggregate materials will be "contaminated" with soil and other constituents over the course of construction; therefore, the aggregate materials should not be considered part of the final pavement section unless otherwise evaluated and approved by the Geotechnical Engineer.

- **Subgrade Preparation:** We recommend that any areas to receive fill be scarified, moisture conditioned, and recompacted to a depth of 12 inches. In addition, the upper 12 inches of pavement subgrade should be scarified, moisture conditioned, and recompacted immediately prior to final proofroll and paving.

  A proofroll of the subgrade soils should also be performed prior to paving and any soft/yielding areas remediated. Paving materials used at the site should meet current Town of Erie and/or CDOT specifications.

- **Pavement Performance:** Future performance of pavements constructed on the subgrade at this site will be dependent upon several factors, including:

  - Maintaining stable moisture content of the subgrade soils.
  - Providing for a planned program of preventative maintenance.

  Minimizing excess moisture, which can reach the subgrade soils, can enhance the performance of all pavements. Preventative maintenance should be planned and provided for an ongoing pavement management program in order to enhance future pavement performance. Preventative maintenance activities are intended to slow the rate of pavement deterioration and to preserve the pavement investment.

Additional Design and Construction Considerations:

- **Exterior Slab Design and Construction:** Flatwork and pavements will be subject to post-construction movement due to backfill settlement and/or soil/frost heave. Maximum grades practical should be used for paving and flatwork to prevent areas where water can pond. In addition, allowances in final grades should take into consideration post-construction movement of flatwork, particularly if such movement would be critical. Where paving or flatwork abuts structures, care should be taken that joints are properly sealed and slopes maintained to prevent the infiltration of surface water. Portions of the flatwork adjacent to the structures may also bear on foundation backfill that is prone

to settlement. In areas where settlement of flatwork cannot be tolerated, slabs should be integrated into foundation or supported structurally by haunches.

To reduce the potential for damage, we recommend:

- exterior slabs in critical areas be supported on a zone of recompacted soils.
- Supporting of flatwork at building entrances and other critical areas on haunches attached by the building foundations.
- placement of effective control joints on relatively close centers and isolation joints between slabs and other structural elements.
- provision for adequate drainage in areas adjoining the slabs.
- use of designs which allow vertical movement between the exterior slabs and adjoining structural elements.

- **Underground Utility Systems:** All underground utility lines penetrating below foundations should be installed deep enough to avoid direct contact with foundations or be designed with flexible couplings (if available), so minor deviations in alignment do not result in breakage or distress. Utility knockouts in foundation walls should be oversized to accommodate differential movements.

  It is strongly recommended that a representative of the geotechnical engineer provide full-time observation and compaction testing of trench backfill within building and pavement areas.

- **Concrete Corrosion Protection:** Select soil samples were tested for the presence of water-soluble sulfates, as outlined in the table below.

Boring	Depth (ft)	Material	Water-Soluble Sulfates (ppm)	ACI Sulfate Exposure Class
2	4	Sandy Lean Clay	300	S1
4	4	Clayey Sand	100	S0
9	4	Sandy Lean Clay to Clayey Sand	0	S0

The select samples, likely to be in contact with project concrete, were tested for the presence of water-soluble sulfates in order to determine corrosion characteristics and the appropriate concrete mixture. Testing results indicate the samples are within the American Concrete Institute (ACI) Sulfate Exposure Class S0 and S1. in accordance with Chapter 19 of the ACI design manual, *Building Code Requirements for Structural Concrete (ACI 318-14).* ***Therefore, project concrete be designed utilizing ACI Sulfate Exposure Class S1, as summarized in the table below.***

ACI Sulfate Exposure Class	Portland Cement Type (ASTM C150)	Maximum Water/Cement Ratio	Minimum Concrete Compressive Strength (psi)
S1	II (or equivalent)	0.50	4,000

GENERAL COMMENTS

Supplemental exploration and analyses should be performed in order to develop final design parameters and to confirm and/or modify the preliminary recommendations and conclusions contained in this report.

CGG should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. CGG should also be retained to provide testing and observation during the excavation, grading, foundation and construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include, either specifically or by implication, any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes are planned in the nature, design, or location of the project as outlined in this report, the conclusions and recommendations contained in this report shall not be considered valid unless CGG reviews the changes, and either verifies or modifies the conclusions of this report in writing.

APPENDIX A

BORING LOCATION DIAGRAM
BORING LOGS

1 APPROXIMATE BORING LOCATIONS

FIGURE 1 - BORING LOCATION DIAGRAM
PROPOSED RESIDENTIAL DEVELOPMENT
4060 EAST COUNTY LINE ROAD
ERIE, COLORADO
CGG PROJECT NO. 20.22.172

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(303) 996-2999

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BORING NUMBER 1

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
DURING DRILLING 20.00 ft
LOGGED BY JL **CHECKED BY** AG
AFTER DRILLING 18.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, dry to moist, medium stiff	0							
		5	CL/SC	CB	100	6 / 12	5.8	113	-0.3/500
		10	CL/SC	CB	100	10 / 12	15.3	112	+0.3/500
	11								
	SILTY SAND, fine to medium-grained, tan, brown, dry to moist, medium dense	15	SM	CB	100	24 / 12	4.2		
	▽	20	SM	CB	100	16 / 12	8.2		
	20								
	FINE to COARSE SAND with SILT and GRAVEL, brown, red-brown, wet, very loose to medium dense	25	SP-SM	CB	0	2 / 12			
		30	SP-SM	SS	100	24 / 12	15.6		
	31								
	CLAYSTONE BEDROCK, grey, moist, very hard	35	-	SS	100	50 / 4	18.4		
	35								

Approximate bottom of borehole at 35.0 feet.

GEOTECH BH COLUMNS - GINT STD US LAB.GDT - 10/26/20 14:51 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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BORING NUMBER 2

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 21.00 ft
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** 18.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
		0							
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, calcareous, dry to moist, medium stiff	5	CL	CB	100	8 / 12	7.4	116	-0.1/500
	7								
	SILTY SAND, fine to medium-grained, light brown to brown, dry to moist, medium dense	10	SM	CB	100	16 / 12	11.3	122	+1.0/500
		15	SM	CB	100	26 / 12	7.8	107	
	18 ▼								
	FINE to COARSE SAND with SILT and GRAVEL, brown, red-brown, wet, medium dense	20	SP-SM	SS	100	12 / 12	15.3		
	▽								
	25	25	SP-SM	SS	100	22 / 12	17.2		

Approximate bottom of borehole at 25.0 feet.

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BORING NUMBER 3

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 22.00 ft
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** DCI 20 ' - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
		0							
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, calcareous, dry to moist, very stiff	5	CL/SC	CB	100	20 / 12	8.9	113	+0.1/500
	7								
	SILTY SAND, fine to medium-grained, light brown to brown, dry to moist, loose to medium dense	10	SM	CB	100	14 / 12	5.4	114	
		15	SM	CB	100	21 / 12	4.0	104	
	18								
	FINE to COARSE SAND with SILT and GRAVEL, brown, red-brown, dry to wet, medium dense to dense ▽	20	SP-SM	SS	100	50 / 12	3.1		
		25	SP-SM	SS	100	11 / 12	14.9		
		30							
	35	35	SP-SM	SS	100	17 / 12	7.8		

Approximate bottom of borehole at 35.0 feet.

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BORING NUMBER 4

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 19.00 ft
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** 18.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, dry to moist, medium stiff to stiff	0							
		5	SC	CB	100	9 / 12	7.6	114	-0.6/500
		10	CL/SC	CB	100	11 / 12	12.6	112	+0.1/500
	11 **SILTY SAND**, fine to coarse-grained, light brown to brown, moist, medium dense	15	SM	CB	100	17 / 12	3.4	110	
	16 **FINE to COARSE SAND with SILT and GRAVEL**, brown, red-brown, wet, medium dense ▼ ▽	20	SP-SM	CB	0	18 / 12			
		25	SP-SM	SS	100	24 / 12	17.3		
	25								

Approximate bottom of borehole at 25.0 feet.

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BORING NUMBER 5

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 20.00 ft
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** 19.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	FILL - SILTY SAND, fine to coarse-grained, with some gravel, brown to dark brown, dry to moist, loose	0							
		5	SM	CB	100	8 / 12	7.0		
		6							
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, iron-stained, dry to moist, medium stiff	10	CL/SC	CB	100	9 / 12	10.0	112	+0.2/500
		12							
	SILTY SAND, fine to medium-grained, tan, brown, moist, medium dense	15	SM	CB	100	15 / 12	6.3	108	
		18							
	FINE to COARSE SAND with SILT and GRAVEL, light brown to brown, iron-stained, wet, medium dense ▼ ▽	20	SP-SM	CB	100	19 / 12	12.9		
		25	SP-SM	CB	0	15 / 12			

Approximate bottom of borehole at 25.0 feet.

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BORING NUMBER 6

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 21.00 ft
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** 20.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	CLAYEY to SILTY SAND, fine to medium-grained, light brown to brown, dry to moist, loose to medium dense	0							
		5	SM	CB	100	16 / 12	4.5	115	-0.6/500
		10	SC/SM	CB	100	8 / 12	7.0	114	
	12								
	FINE to COARSE SAND with SILT and GRAVEL, brown, red-brown, dry to moist, medium dense	15	SP-SM	CB	100	20 / 12	3.9		
	18								
	SANDY LEAN CLAY to CLAYEY SAND, brown, iron-stained, moist to wet, medium stiff ▼ ▽	20	CL/SC	CB	100	7 / 12	16.6		
	25	25	CL/SC	CB	0	7 / 12			

Approximate bottom of borehole at 25.0 feet.

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BORING NUMBER 7

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 19.00 ft
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** 18.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, iron-stained, dry to moist, stiff to very stiff	0							
		5	CL	CB	100	21 / 12	14.0	102	+0.6/500
		10	CL/SC	CB	100	13 / 12	9.6	121	+0.4/500
	11								
	FINE to COARSE SAND with SILT and GRAVEL, light brown to brown, iron-stained, moist, medium dense	15	SP-SM	CB	100	37 / 12	3.8		
	17								
	CLAYEY to SILTY SAND, fine-grained, tan, light brown, moist to wet, medium dense to dense ▼ ▽	20	SC	SS	100	25 / 12	18.7		
		25	SC/SM	SS	100	14 / 12	21.6		
		30	SC/SM	SS	100	34 / 12	14.3		
	32								
	CLAYSTONE BEDROCK, grey, dark brown, moist, very hard	35	-	SS	100	50 / 4	9.8		
	35								

Approximate bottom of borehole at 35.0 feet.

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BORING NUMBER 8

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
DURING DRILLING 18.00 ft
LOGGED BY JL **CHECKED BY** AG
AFTER DRILLING 17.00 ft - 9/22/20

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, dry to moist, very stiff	0							
		5	CL/SC	CB	100	24 / 12	8.3	123	+2.5/500
		10	CL/SC	CB	100	27 / 12	10.9	121	
	11								
	CLAYEY to SILTY SAND, fine-grained, light brown to brown, dry to wet, loose to medium dense	15	SM	CB	100	30 / 12	7.8	116	
		20	SC/SM	CB	100	13 / 12	17.7	112	
	22								
	FINE to COARSE SAND with SILT and GRAVEL, brown, red-brown, wet, loose	25	SP-SM	CB	100	13 / 12	12.8		
	25								

Approximate bottom of borehole at 25.0 feet.

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Westminster, CO 80234
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BORING NUMBER 9

CLIENT Diverge Homes
PROJECT NAME Proposed Residential Development
PROJECT NUMBER 20.22.172
PROJECT LOCATION 4060 East County Line Road - Erie, Colorado
DATE STARTED 9/18/20 **COMPLETED** 9/18/20
GROUND SURFACE ELEV. Not Provided **PROPOSED ELEV.** Not Provided
DRILLING CONTRACTOR Vine Laboratories
SURFACE CONDITIONS Low growth of grass and weeds
DRILLING METHOD CME-55 Track-rig/Solid Stem Auger
GROUND WATER LEVELS:
HAMMER TYPE Automatic
▽ **DURING DRILLING** 21.00 ft - 9/22/20
LOGGED BY JL **CHECKED BY** AG
▼ **AFTER DRILLING** 18.00 ft

GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	USCS SYMBOL	SAMPLE TYPE	RECOVERY %	PENETRATION blows/in	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	SWELL-CONSOL /SURCHARGE LOAD, %psf
	SANDY LEAN CLAY to CLAYEY SAND, light brown to brown, calcareous, dry to moist, very stiff	0							
		5	CL/SC	CB	100	27 / 12	11.6		
10		10	CL	CB	100	25 / 12	4.0		
	SILTY SAND, fine to coarse-grained, brown, iron-stained, dry to wet, medium dense	15	SM	CB	100	25 / 12	2.7		
	▼	20	SM	CB	100	27 / 12	13.6		
21	▽								
	FINE to COARSE SAND with SILT and GRAVEL, brown, red-brown, wet, dense	25	SP-SM	SS	100	44 / 12	9.2		
		30	SP-SM	SS	100	50 / 12	8.9		
33									
35	**SANDSTONE BEDROCK**, fine-grained, light grey, tan, moist, very hard	35	-	SS	100	50 / 4	17.7		

Approximate bottom of borehole at 35.0 feet.

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APPENDIX B

LABORATORY TEST RESULTS

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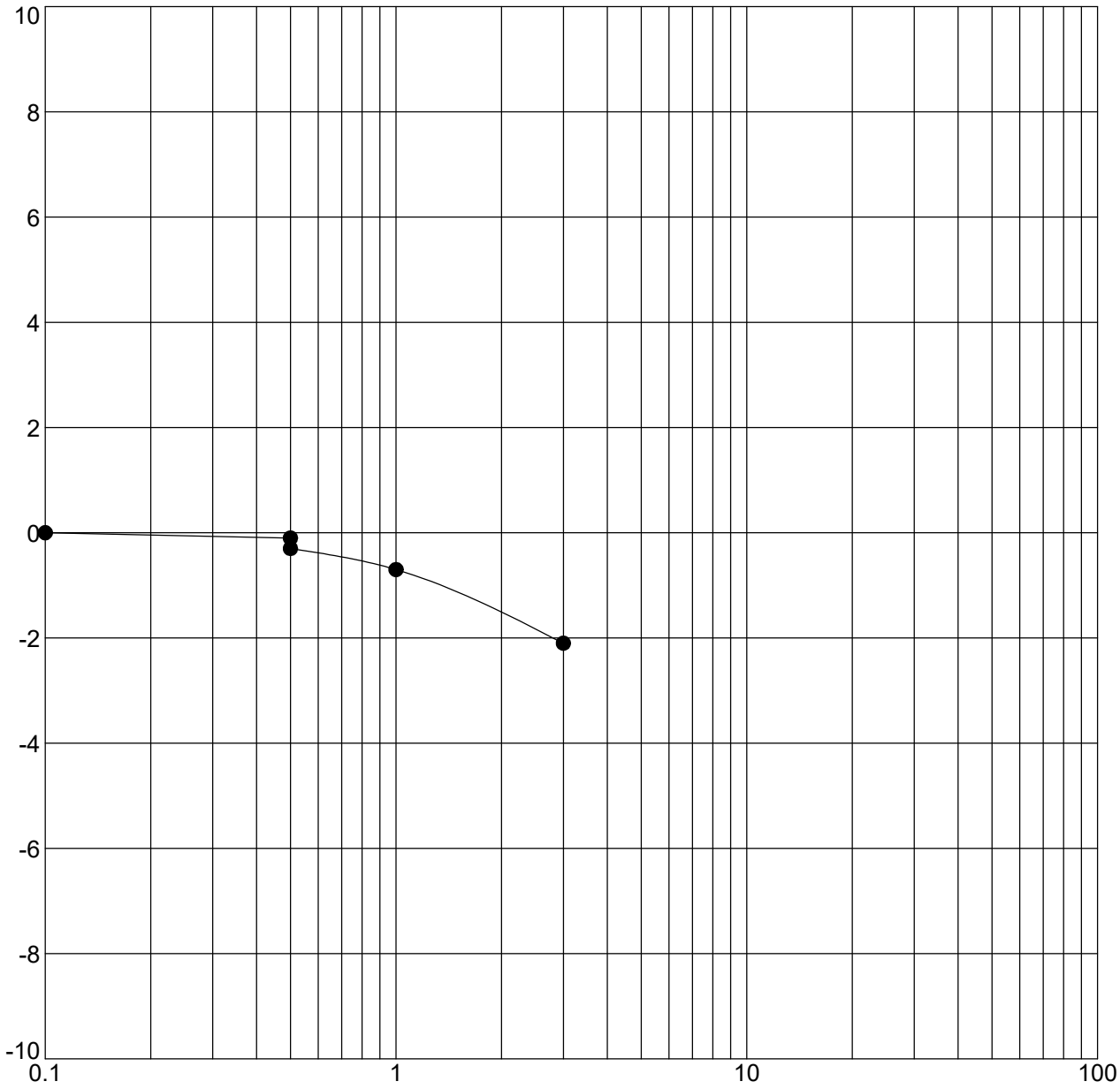
Telephone: 303-996-2999

SWELL/CONSOLIDATION TEST

CLIENT Diverge Homes **PROJECT NAME** Proposed Residential Development

PROJECT NUMBER 20.22.172 **PROJECT LOCATION** 4060 East County Line Road - Erie, Colorado



BOREHOLE	DEPTH	Classification	γ_d	MC%
● 1	4.0	**SANDY LEAN CLAY to CLAYEY SAND**	113	6

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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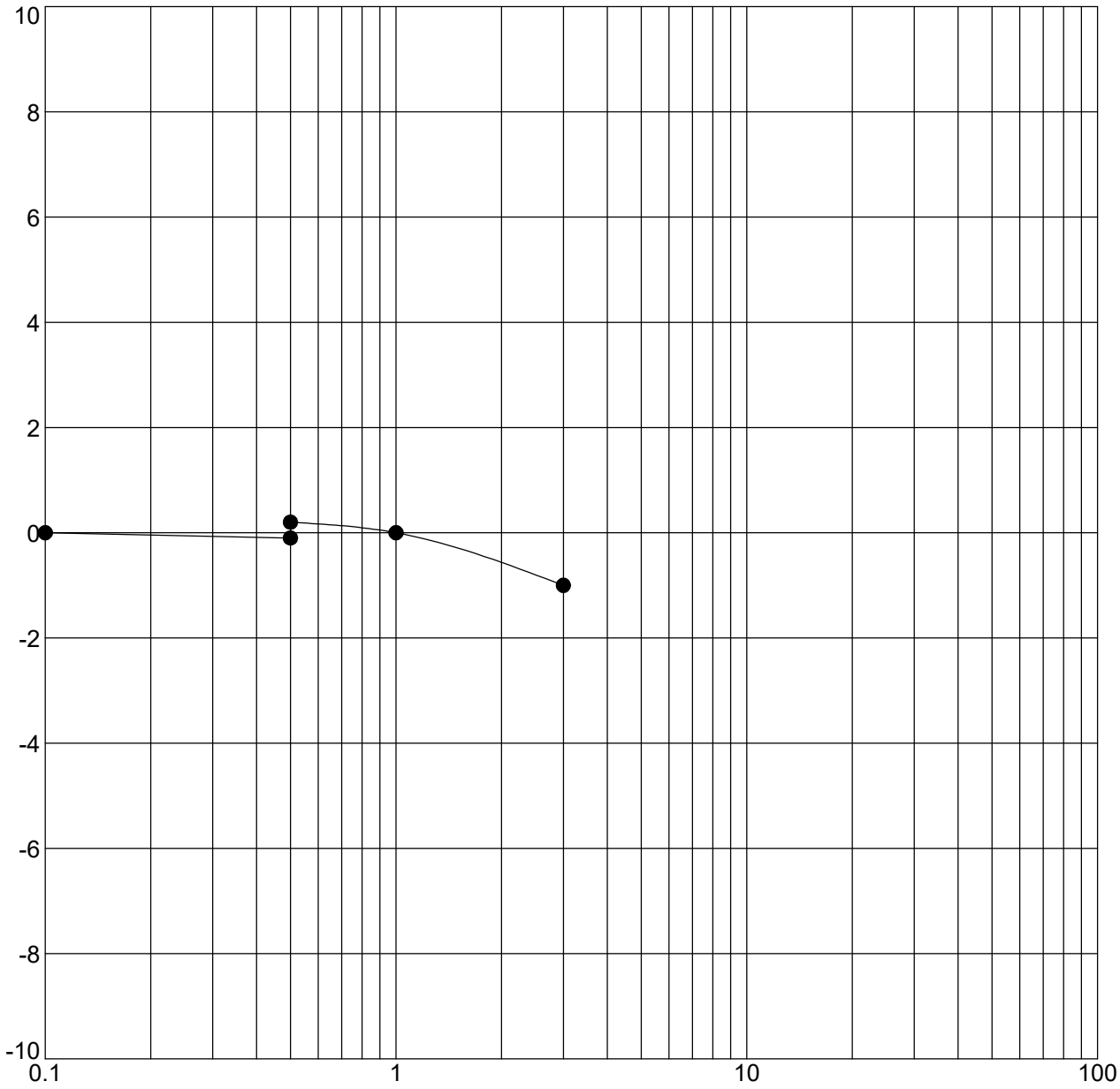
SWELL/CONSOLIDATION TEST

CLIENT Diverge Homes **PROJECT NAME** Proposed Residential Development

PROJECT NUMBER 20.22.172 **PROJECT LOCATION** 4060 East County Line Road - Erie, Colorado



BOREHOLE	DEPTH	Classification	γ_d	MC%
● 1	9.0	**SANDY LEAN CLAY to CLAYEY SAND**	112	15

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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SWELL/CONSOLIDATION TEST

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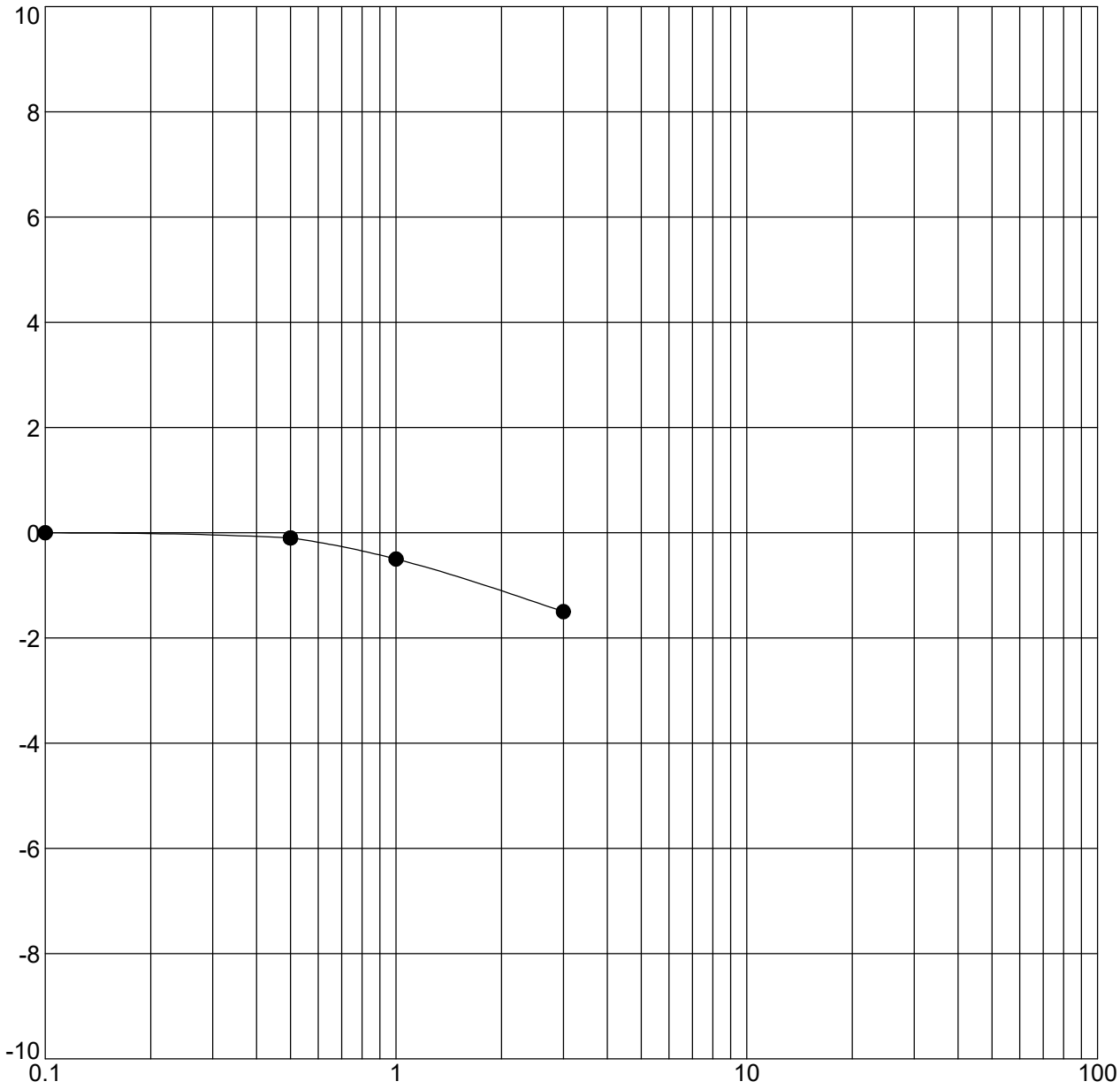

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 2	4.0	**SANDY LEAN CLAY(CL)**	116	7

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

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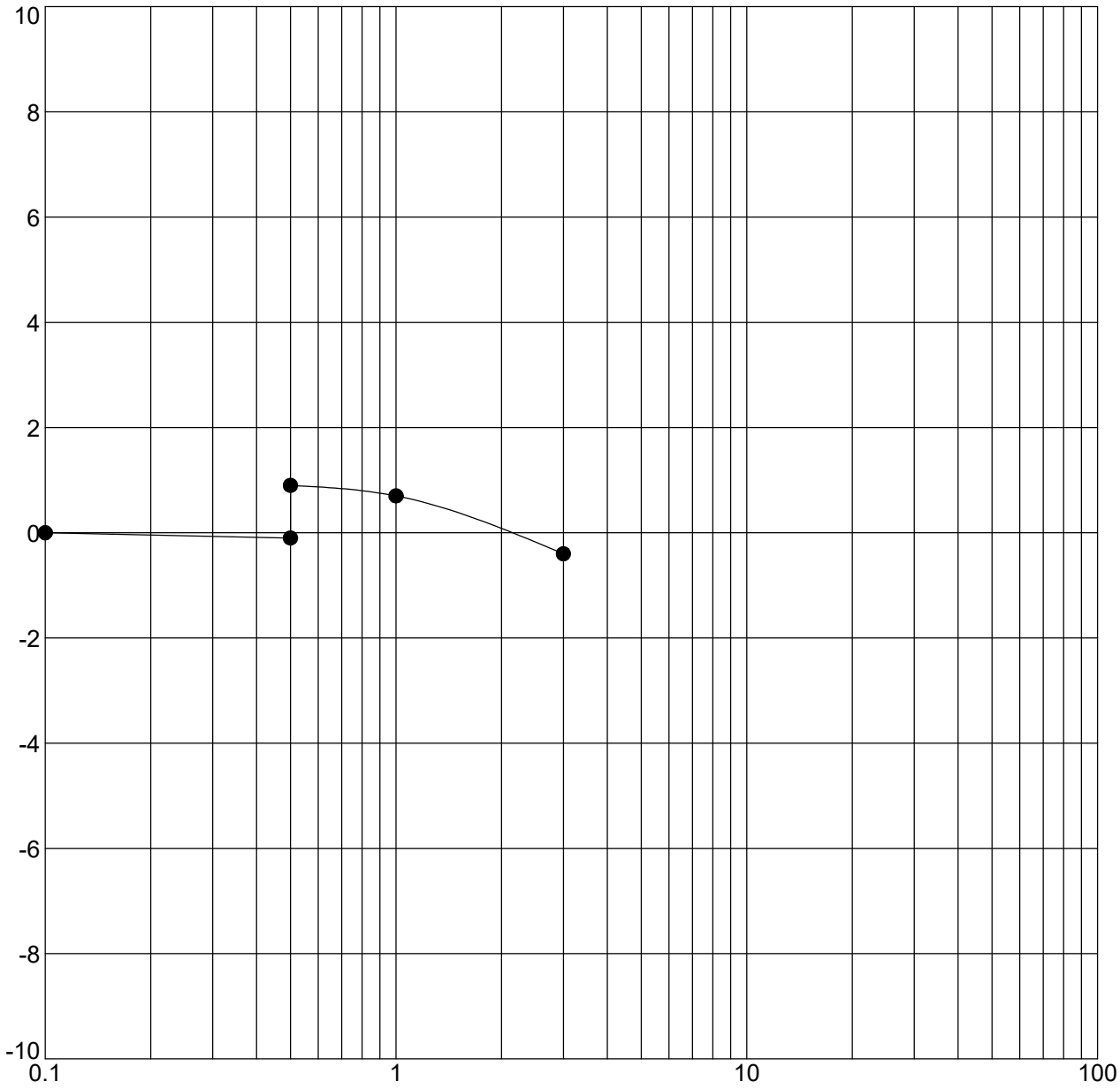

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 2	9.0	**SILTY SAND**	122	11

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

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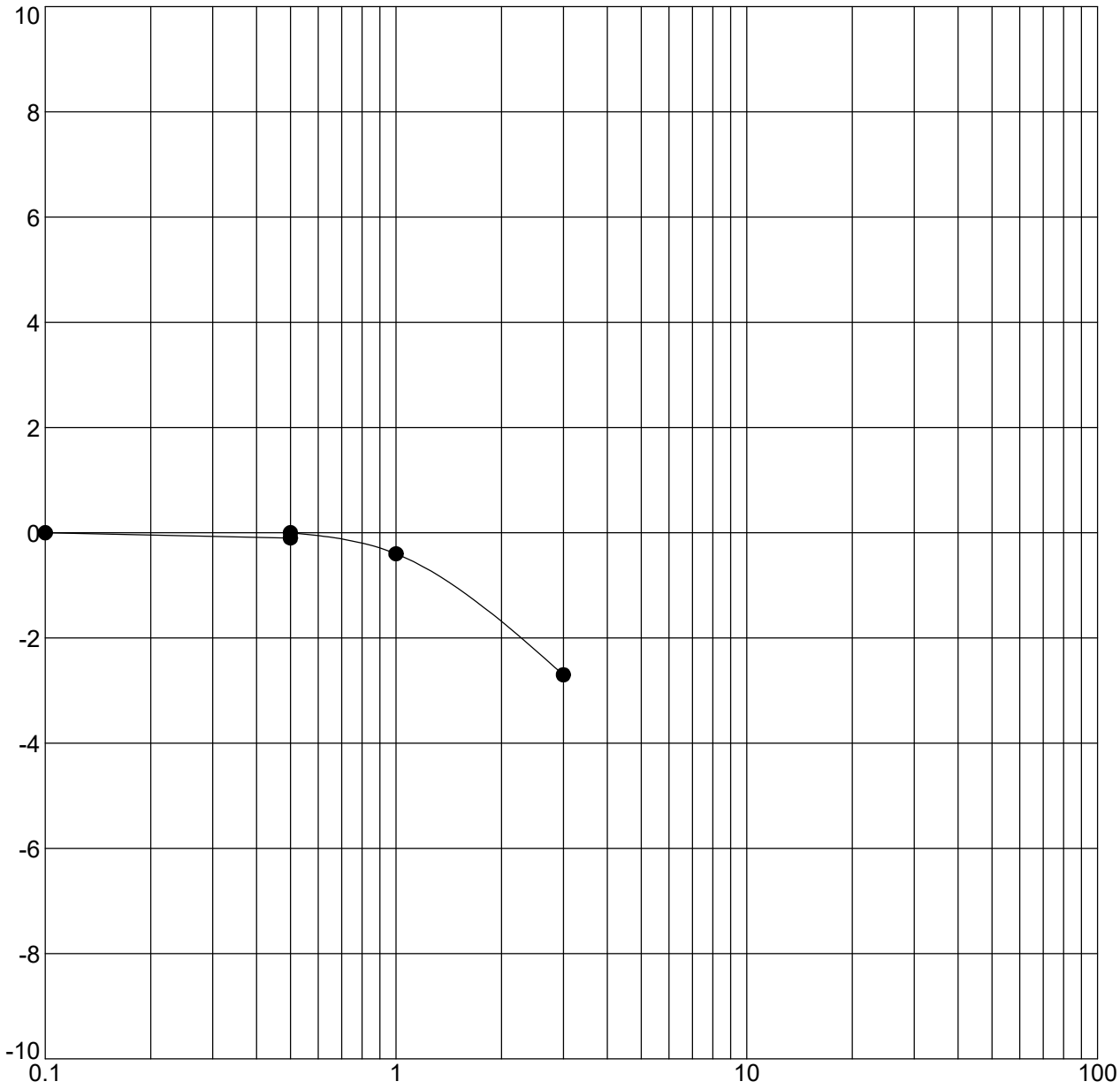

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 3	4.0	**SANDY LEAN CLAY to CLAYEY SAND**	113	9

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

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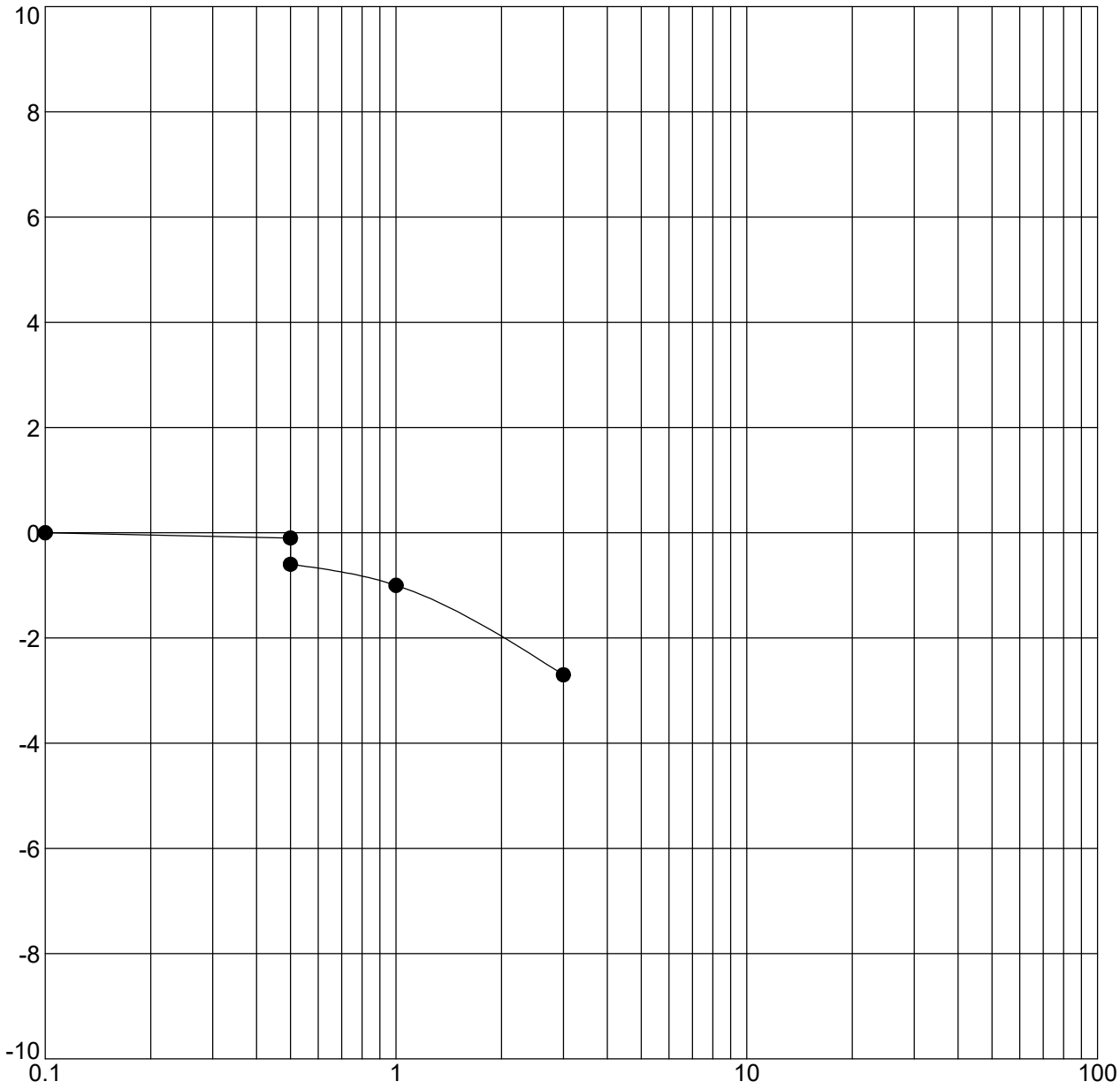

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 4	4.0	**CLAYEY SAND(SC)**	114	8

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

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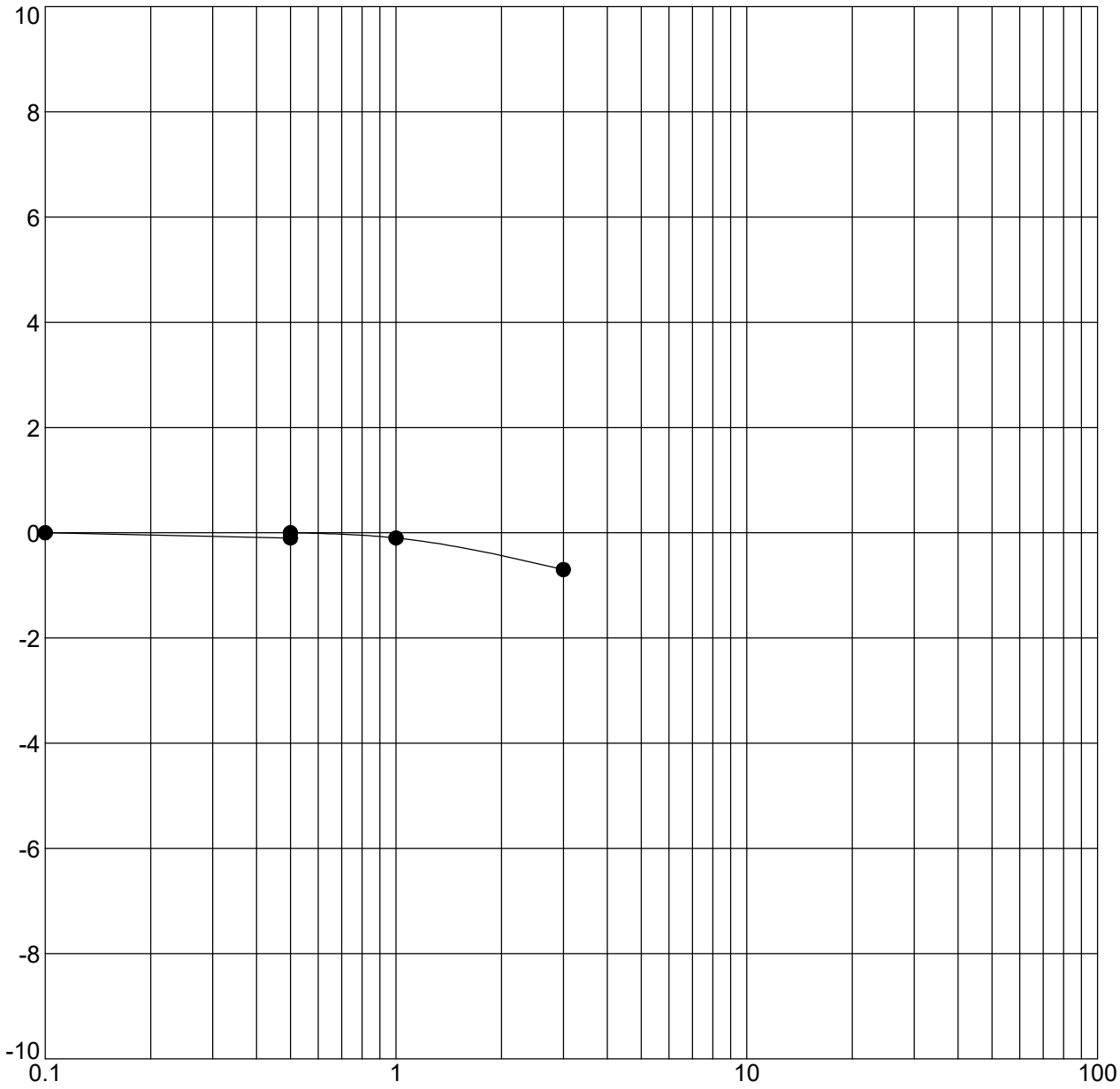

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 4	9.0	**SANDY LEAN CLAY to CLAYEY SAND**	112	13

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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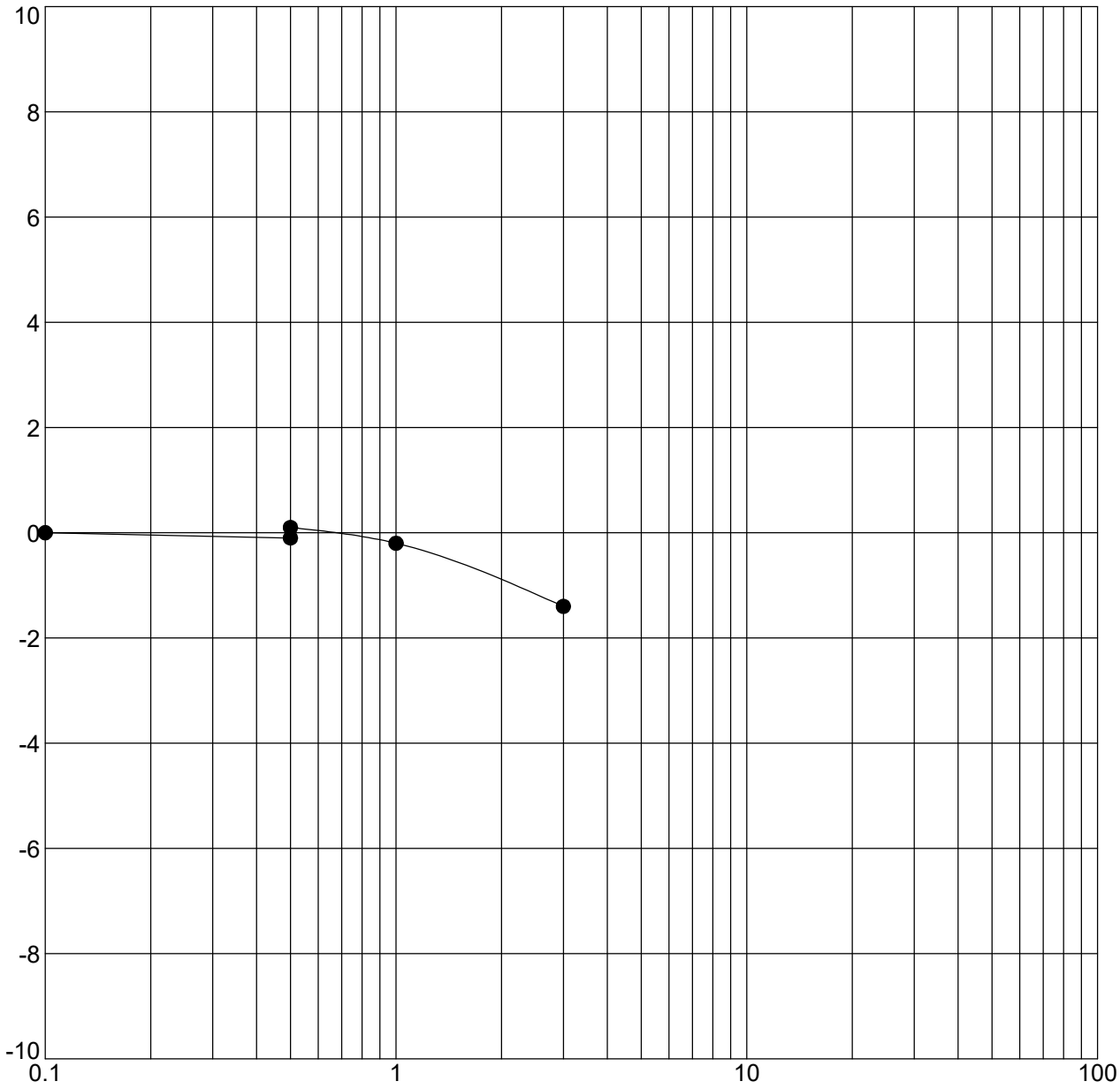

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 5	9.0	**SANDY LEAN CLAY to CLAYEY SAND**	112	10

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

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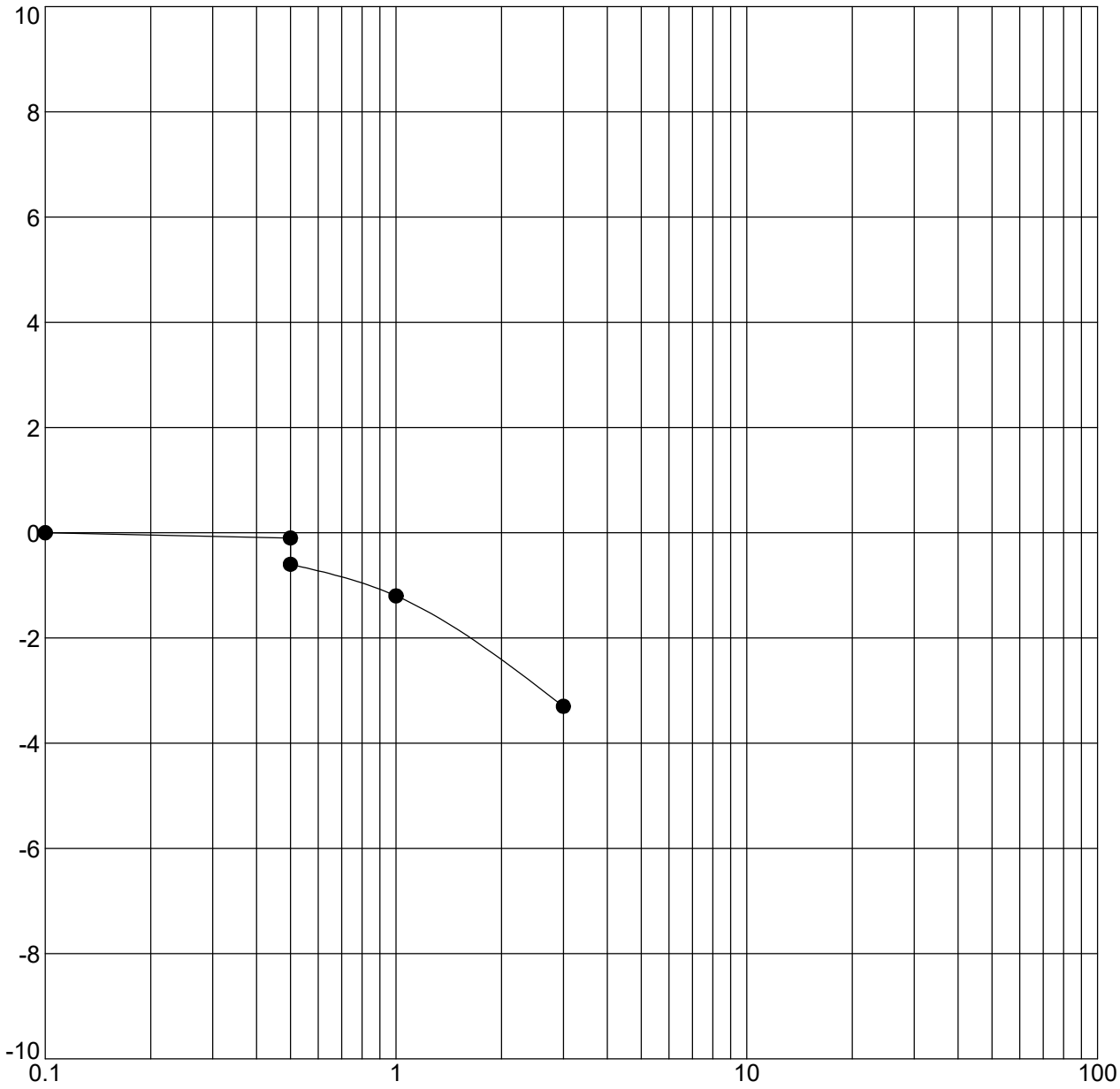

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 6	4.0	**SILTY SAND**	115	4

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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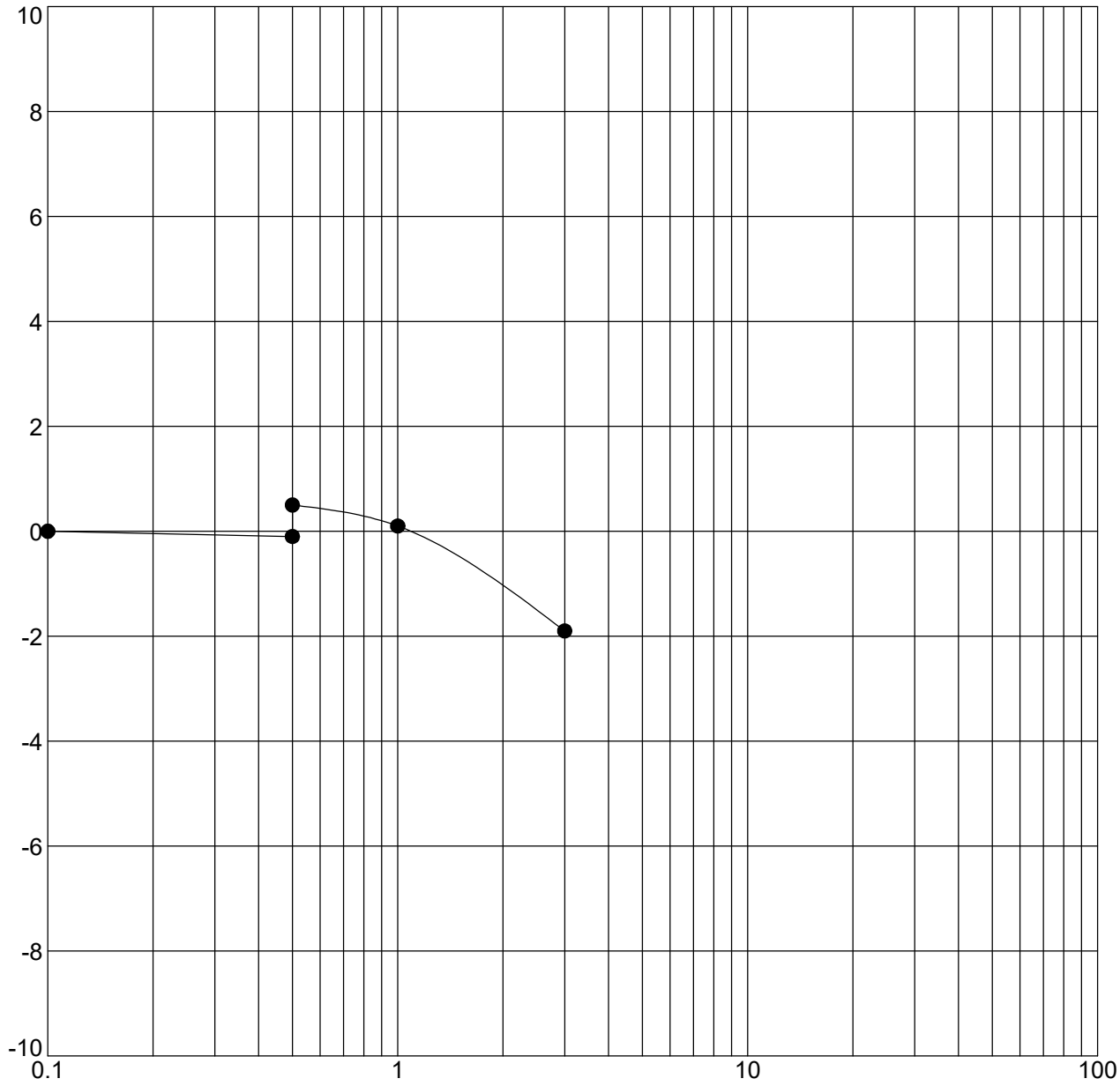

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 7	4.0	**SANDY LEAN CLAY(CL)**	102	14

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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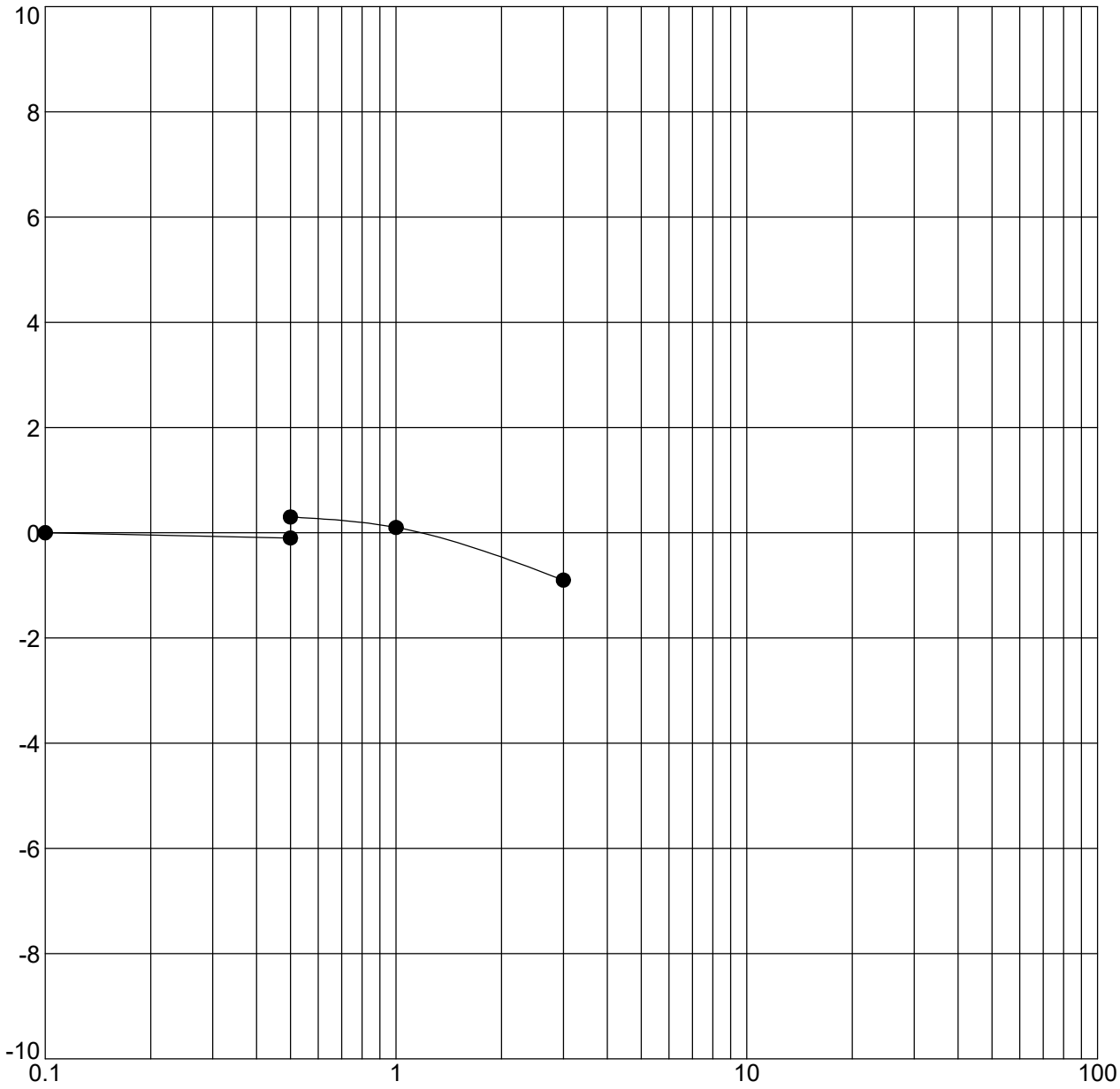

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 7	9.0	**SANDY LEAN CLAY to CLAYEY SAND**	121	10

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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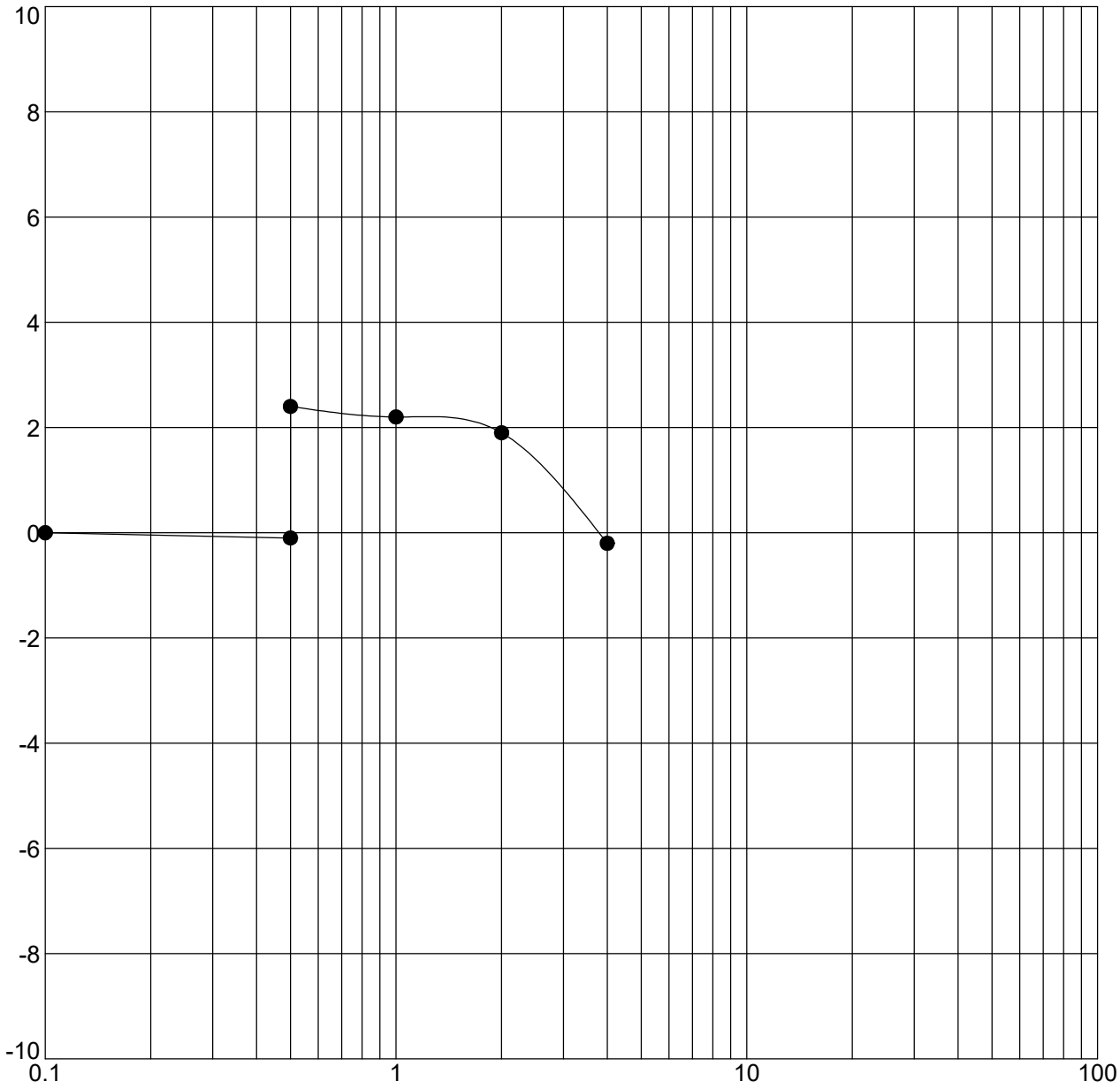

BOREHOLE	DEPTH	Classification	γ_d	MC%
● 8	4.0	**SANDY LEAN CLAY to CLAYEY SAND**	123	8

Note: Water Added to Sample at 500 psf.

Date: 10/6/20

CONSOL STRAIN SINGLE - GINT STD US LAB.GDT - 10/23/20 13:59 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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GRAIN SIZE DISTRIBUTION

CLIENT Diverge Homes **PROJECT NAME** Proposed Residential Development

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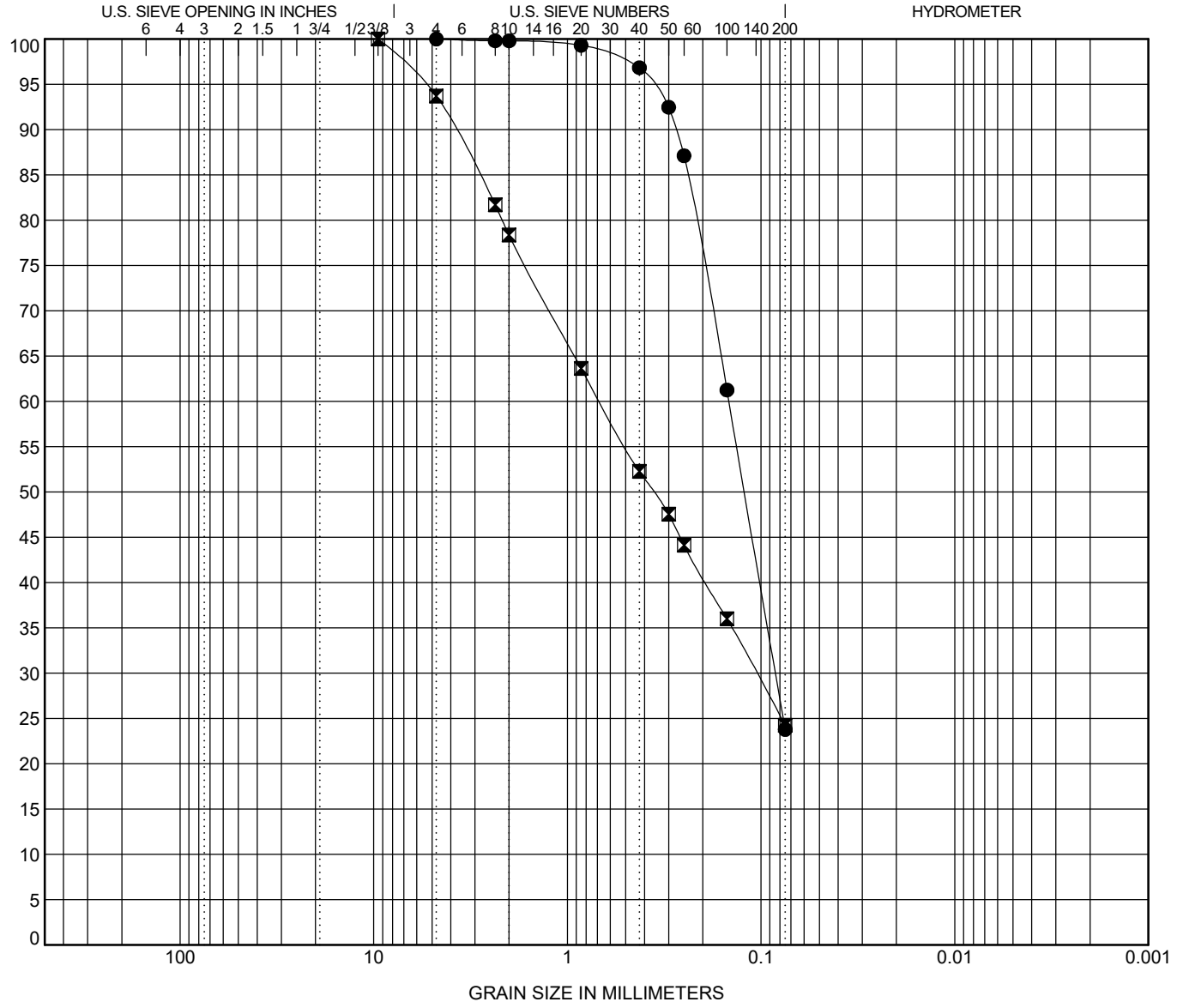

COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	BOREHOLE	DEPTH	Classification	LL	PL	PI	Cc	Cu
●	3	14.0	**SILTY SAND(SM)**	**NP**	**NP**	**NP**		
⊠	5	4.0	**SILTY SAND(SM)**	**NP**	**NP**	**NP**		

	BOREHOLE	DEPTH	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	3	14.0	4.75	0.147	0.084		0.0	76.2	23.8	
⊠	5	4.0	9.5	0.681	0.105		6.3	69.5	24.2	

GRAIN SIZE - GINT STD US LAB.GDT - 10/12/20 12:29 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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SUMMARY OF LABORATORY RESULTS

CLIENT Diverge Homes

PROJECT NAME Proposed Residential Development

PROJECT NUMBER 20.22.172

PROJECT LOCATION 4060 East County Line Road - Erie, Colorado

Borehole	Depth	Soil Description	Water Content (%)	Dry Density (pcf)	Swell (+) or Consolidation (-)/ Surcharge (%/psf)	Water Soluble Sulfates (ppm)	Passing #200 Sieve (%)	Atterberg Limits		
								Liquid Limit	Plastic Limit	Plasticity Index
1	4	SANDY LEAN CLAY to CLAYEY SAND	5.8	112.8	-0.3/500					
1	9	SANDY LEAN CLAY to CLAYEY SAND	15.3	112.3	+0.3/500					
1	14	SILTY SAND	4.2							
1	19	SILTY SAND	8.2							
1	29	FINE to COARSE SAND with SILT and GRAVEL	15.6							
1	34	FINE to COARSE SAND with SILT and GRAVEL	18.4							
2	4	SANDY LEAN CLAY(CL)	7.4	115.9	-0.1/500	300	59	36	20	16
2	9	SILTY SAND	11.3	122.2	+1.0/500					
2	14	SILTY SAND	7.8	106.7						
2	19	FINE to COARSE SAND with SILT and GRAVEL	15.3							
2	24	FINE to COARSE SAND with SILT and GRAVEL	17.2							
3	4	SANDY LEAN CLAY to CLAYEY SAND	8.9	113.3	+0.1/500					
3	9	SILTY SAND	5.4	113.6						
3	14	SILTY SAND(SM)	4.0	104.0			24	NP	NP	NP
3	19	FINE to COARSE SAND with SILT and GRAVEL	3.1							
3	24	FINE to COARSE SAND with SILT and GRAVEL	14.9							
3	34	FINE to COARSE SAND with SILT and GRAVEL	7.8							
4	4	CLAYEY SAND(SC)	7.6	114.1	-0.6/500	100	48	35	21	14
4	9	SANDY LEAN CLAY to CLAYEY SAND	12.6	111.7	+0.1/500					
4	14	SILTY SAND	3.4	109.7						
4	24	FINE to COARSE SAND with SILT and GRAVEL	17.3							
5	4	SILTY SAND(SM)	7.0				24	NP	NP	NP
5	9	SANDY LEAN CLAY to CLAYEY SAND	10.0	111.8	+0.2/500					
5	14	SILTY SAND	6.3	107.6						
5	19	FINE to COARSE SAND with SILT and GRAVEL	12.9							
6	4	SILTY SAND	4.5	114.8	-0.6/500					
6	9	CLAYEY to SILTY SAND	7.0	114.2						
6	14	FINE to COARSE SAND with SILT and GRAVEL	3.9							
6	19	SANDY LEAN CLAY to CLAYEY SAND	16.6							
7	4	SANDY LEAN CLAY(CL)	14.0	101.8	+0.6/500		61	35	21	14

LAB SUMMARY - GINT STD US LAB.GDT - 10/23/20 14:00 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

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SUMMARY OF LABORATORY RESULTS

CLIENT Diverge Homes

PROJECT NAME Proposed Residential Development

PROJECT NUMBER 20.22.172

PROJECT LOCATION 4060 East County Line Road - Erie, Colorado

Borehole	Depth	Soil Description	Water Content (%)	Dry Density (pcf)	Swell (+) or Consolidation (-)/ Surcharge (%/psf)	Water Soluble Sulfates (ppm)	Passing #200 Sieve (%)	Atterberg Limits		
								Liquid Limit	Plastic Limit	Plasticity Index
7	9	SANDY LEAN CLAY to CLAYEY SAND	9.6	121.1	+0.4/500					
7	14	FINE to COARSE SAND with SILT and GRAVEL	3.8							
7	19	CLAYEY SAND	18.7							
7	24	CLAYEY to SILTY SAND	21.6							
7	29	CLAYEY to SILTY SAND	14.3							
7	34	CLAYSTONE BEDROCK	9.8							
8	4	SANDY LEAN CLAY to CLAYEY SAND	8.3	123.5	+2.5/500					
8	9	FINE to COARSE SAND with SILT and GRAVEL	10.9	120.6						
8	14	SILTY SAND	7.8	115.9						
8	19	CLAYEY to SILTY SAND	17.7	111.6						
8	24	FINE to COARSE SAND with SILT and GRAVEL	12.8							
9	4	SANDY LEAN CLAY to CLAYEY SAND	11.6			0				
9	9	SANDY LEAN CLAY(CL)	4.0				50	35	22	13
9	14	SILTY SAND	2.7							
9	19	SILTY SAND	13.6							
9	24	FINE to COARSE SAND with SILT and GRAVEL	9.2							
9	29	FINE to COARSE SAND with SILT and GRAVEL	8.9							
9	34	SANDSTONE BEDROCK	17.7							

LAB SUMMARY - GINT STD US LAB.GDT - 10/23/20 14:00 - Y:\GINT BACKUPS\MAIN TRANSFER 10.28\PROJECTS GEO 2020\20.22.172 DIVERGEHOMES 4060COUNTYLINERD-ERIE.GPJ

APPENDIX C

GENERAL NOTES
TYPICAL PERIMETER DRAIN DETAILS

GENERAL NOTES

DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1⅜" I.D., 2" O.D., unless otherwise noted	HS:	Hollow Stem Auger
ST:	Thin-Walled Tube – 2.5" O.D., unless otherwise noted	PA:	Power Auger
RS:	Ring Sampler - 2.42" I.D., 3" O.D., unless otherwise noted	HA:	Hand Auger
CB:	California Barrel - 1.92" I.D., 2.5" O.D., unless otherwise noted	RB:	Rock Bit
BS:	Bulk Sample or Auger Sample	WB:	Wash Boring or Mud Rotary

The number of blows required to advance a standard 2-inch O.D. split-spoon sampler (SS) the last 12 inches of the total 18-inch penetration with a 140-pound hammer falling 30 inches is considered the "Standard Penetration" or "N-value". For 2.5" O.D. California Barrel samplers (CB) the penetration value is reported as the number of blows required to advance the sampler 12 inches using a 140-pound hammer falling 30 inches, reported as "blows per inch," and is not considered equivalent to the "Standard Penetration" or "N-value".

WATER LEVEL MEASUREMENT SYMBOLS:

WL:	Water Level	WS:	While Sampling
WCI:	Wet Cave in	WD:	While Drilling
DCI:	Dry Cave in	BCR:	Before Casing Removal
AB:	After Boring	ACR:	After Casing Removal

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels may not be possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION: Soil classification is based on the Unified Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

FINE-GRAINED SOILS			COARSE-GRAINED SOILS			BEDROCK		
(CB) Blows/Ft.	(SS) Blows/Ft.	Consistency	(CB) Blows/Ft.	(SS) Blows/Ft.	Relative Density	(CB) Blows/Ft.	(SS) Blows/Ft.	Consistency
< 3	0-2	Very Soft	0-5	< 3	Very Loose	< 24	< 20	Weathered
3-5	3-4	Soft	6-14	4-9	Loose	24-35	20-29	Firm
6-10	5-8	Medium Stiff	15-46	10-29	Medium Dense	36-60	30-49	Medium Hard
11-18	9-15	Stiff	47-79	30-50	Dense	61-96	50-79	Hard
19-36	16-30	Very Stiff	> 79	> 50	Very Dense	> 96	> 79	Very Hard
> 36	> 30	Hard						

RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Terms of Other Constituents	Percent of Dry Weight
Trace	< 15
With	15 – 29
Modifier	> 30

GRAIN SIZE TERMINOLOGY

Major Component of Sample	Particle Size
Boulders	Over 12 in. (300mm)
Cobbles	12 in. to 3 in. (300mm to 75 mm)
Gravel	3 in. to #4 sieve (75mm to 4.75 mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt or Clay	Passing #200 Sieve (0.075mm)

RELATIVE PROPORTIONS OF FINES

Descriptive Terms of Other Constituents	Percent of Dry Weight
Trace	< 5
With	5 – 12
Modifiers	> 12

PLASTICITY DESCRIPTION

Term	Plasticity Index
Non-plastic	0
Low	1-10
Medium	11-30
High	30+

UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests[A]					Soil Classification	
					Group Symbol	Group Name[B]
Coarse Grained Soils More than 50% retained on No. 200 sieve	Gravels More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels Less than 5% fines[C]	$Cu \geq 4$ and $1 \leq Cc \leq 3$[E]		GW	Well graded gravel[F]
			$Cu < 4$ and/or $1 > Cc > 3$[E]		GP	Poorly graded gravel[F]
		Gravels with Fines More than 12% fines[C]	Fines classify as ML or MH		GM	Silty gravel[F,G,H]
			Fines classify as CL or CH		GC	Clayey gravel[F,G,H]
	Sands 50% or more of coarse fraction passes No. 4 sieve	Clean Sands Less than 5% fines[D]	$Cu \geq 6$ and $1 \leq Cc \leq 3$[E]		SW	Well graded sand[I]
			$Cu < 6$ and/or $1 > Cc > 3$[E]		SP	Poorly graded sand[I]
		Sands with Fines More than 12% fines[D]	Fines classify as ML or MH		SM	Silty sand[G,H,I]
			Fines classify as CL or CH		SC	Clayey sand[G,H,I]
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silts and Clays Liquid limit less than 50	Inorganic	PI > 7 and plots on or above "A" line[J]		CL	Lean clay[K,L,M]
			PI < 4 or plots below "A" line[J]		ML	Silt[K,L,M]
		Organic	**Liquid limit - oven dried**	< 0.75	OL	Organic clay[K,L,M,N]
			Liquid limit - not dried			Organic silt[K,L,M,O]
	Silts and Clays Liquid limit 50 or more	Inorganic	PI plots on or above "A" line		CH	Fat clay[K,L,M]
			PI plots below "A" line		MH	Elastic silt[K,L,M]
		Organic	Liquid limit - oven dried	< 0.75	OH	Organic clay[K,L,M,P]
			Liquid limit - not dried			Organic silt[K,L,M,Q]
Highly organic soils	Primarily organic matter, dark in color, and organic odor				PT	Peat

[A] Based on the material passing the 3-in. (75-mm) sieve

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well graded gravel with silt, GW-GC well graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well graded sand with silt, SW-SC well graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

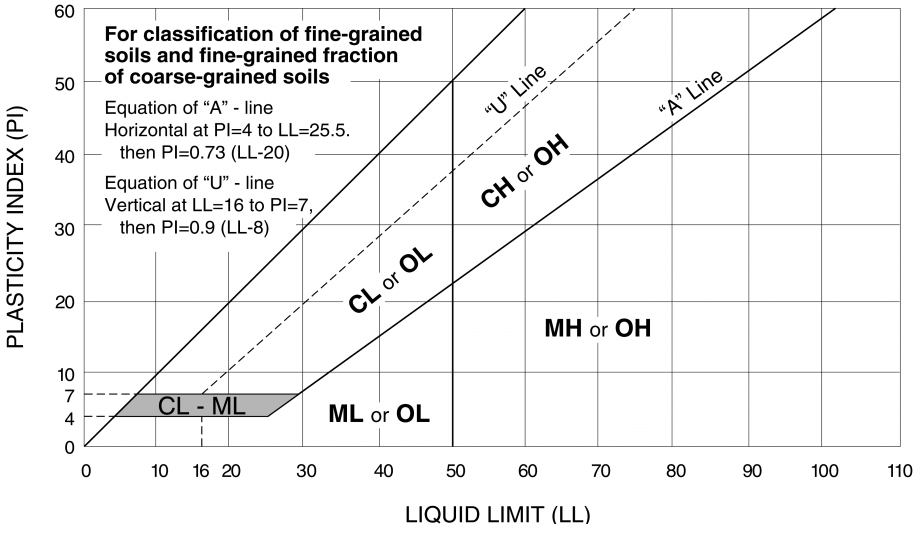
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.



ROCK CLASSIFICATION
(Based on ASTM C-294)

Sedimentary Rocks

Sedimentary rocks are stratified materials laid down by water or wind. The sediments may be composed of particles or pre-existing rocks derived by mechanical weathering, evaporation or by chemical or organic origin. The sediments are usually indurated by cementation or compaction.

Chert Very fine-grained siliceous rock composed of micro-crystalline or cyrptocrystalline quartz, chalcedony or opal. Chert is various colored, porous to dense, hard and has a conchoidal to splintery fracture.

Claystone Fine-grained rock composed of or derived by erosion of silts and clays or any rock containing clay. Soft massive and may contain carbonate minerals.

Conglomerate Rock consisting of a considerable amount of rounded gravel, sand and cobbles with or without interstitial or cementing material. The cementing or interstitial material may be quartz, opal, calcite, dolomite, clay, iron oxides or other materials.

Dolomite A fine-grained carbonate rock consisting of the mineral dolomite [$CaMg(CO_3)_2$]. May contain noncarbonate impurities such as quartz, chert, clay minerals, organic matter, gypsum and sulfides. Reacts with hydrochloric acid (HCL).

Limestone A fine-grained carbonate rock consisting of the mineral calcite ($CaCO_3$). May contain noncarbonate impurities such as quartz, chert, clay minerals, organic matter, gypsum and sulfides. Reacts with hydrochloric acid (HCL).

Sandstone Rock consisting of particles of sand with or without interstitial and cementing materials. The cementing or interstitial material may be quartz, opal, calcite, dolomite, clay, iron oxides or other material.

Shale Fine-grained rock composed of or derived by erosion of silts and clays or any rock containing clay. Shale is hard, platy, of fissile may be gray, black, reddish or green and may contain some carbonate minerals (calcareous shale).

Siltstone Fine grained rock composed of or derived by erosion of silts or rock containing silt. Siltstones consist predominantly of silt sized particles (0.0625 to 0.002 mm in diameter) and are intermediate rocks between claystones and sandstones and may contain carbonate minerals.

ROCK CLASSIFICATION
(Based on ASTM C-294)

Metamorphic Rocks

Metamorphic rocks form from igneous, sedimentary, or pre-existing metamorphic rocks in response to changes in chemical and physical conditions occurring within the earth's crust after formation of the original rock. The changes may be textural, structural, or mineralogic and may be accompanied by changes in chemical composition. The rocks are dense and may be massive but are more frequently foliated (laminated or layered) and tend to break into platy particles. The mineral composition is very variable depending in part on the degree of metamorphism and in part on the composition of the original rock.

Marble — A recrystallized medium- to coarse-grained carbonate rock composed of calcite or dolomite, or calcite and dolomite. The original impurities are present in the form of new minerals, such as micas, amphiboles, pyroxenes, and graphite.

Metaquartzite — A granular rock consisting essentially of recrystallized quartz. Its strength and resistance to weathering derive from the interlocking of the quartz grains.

Slate — A fine-grained metamorphic rock that is distinctly laminated and tends to split into thin parallel layers. The mineral composition usually cannot be determined with the unaided eye.

Schist — A highly layered rock tending to split into nearly parallel planes (schistose) in which the grain is coarse enough to permit identification of the principal minerals. Schists are subdivided into varieties on the basis of the most prominent mineral present in addition to quartz or to quartz and feldspars; for instance, mica schist. Greenschist is a green schistose rock whose color is due to abundance of one or more of the green minerals, chlorite or amphibole, and is commonly derived from altered volcanic rock.

Gneiss — One of the most common metamorphic rocks, usually formed from igneous or sedimentary rocks by a higher degree of metamorphism than the schists. It is characterized by a layered or foliated structure resulting from approximately parallel lenses and bands of platy minerals, usually micas or prisms, usually amphiboles, and of granular minerals, usually quartz and feldspars. All intermediate varieties between gneiss and schist and between gneiss and granite are often found in the same areas in which well-defined gneisses occur.

ROCK CLASSIFICATION
(Based on ASTM C-294)

Igneous Rocks

Igneous rocks are formed by cooling from a molten rock mass (magma). Igneous rocks are divided into two classes (1) plutonic, or intrusive, that have cooled slowly within the earth; and (2) volcanic, or extrusive, that formed from quickly cooled lavas. Plutonic rocks have grain sizes greater than approximately 1 mm, and are classified as coarse- or medium-grained. Volcanic rocks have grain sizes less than approximately 1 mm, and are classified as fine-grained. Volcanic rocks frequently contain glass. Both plutonic and volcanic rocks may consist of porphyries that are characterized by the presence of large mineral grains in a fine-grained or glassy groundmass. This is the result of sharp changes in rate of cooling or other physico-chemical conditions during solidification of the melt.

Granite — Granite is a medium- to coarse-grained light-colored rock characterized by the presence of potassium feldspar with lesser amounts of plagioclase feldspars and quartz. The characteristic potassium feldspars are othoclase or microcline, or both; the common plagioclase feldspars are albite and oligoclase. Feldspars are more abundant than quartz. Dark-colored mica (biotite) is usually present, and light-colored mica (muscovite) is frequently present. Other dark-colored ferromagnesian minerals, especially honblende, may be present in amounts less than those of the light-colored constituents.

Quartz-Monzonite and Grano-Diorite — Rocks similar to granite but contain more plagioclase feldspar than potassium feldspar.

Basalt — Fine-grained extrusive equivalent of gabbro and diabase. When basalt contains natural glass, the glass is generally lower in silica content than that of the lighter-colored extrusive rocks.

LABORATORY TEST
SIGNIFICANCE AND PURPOSE

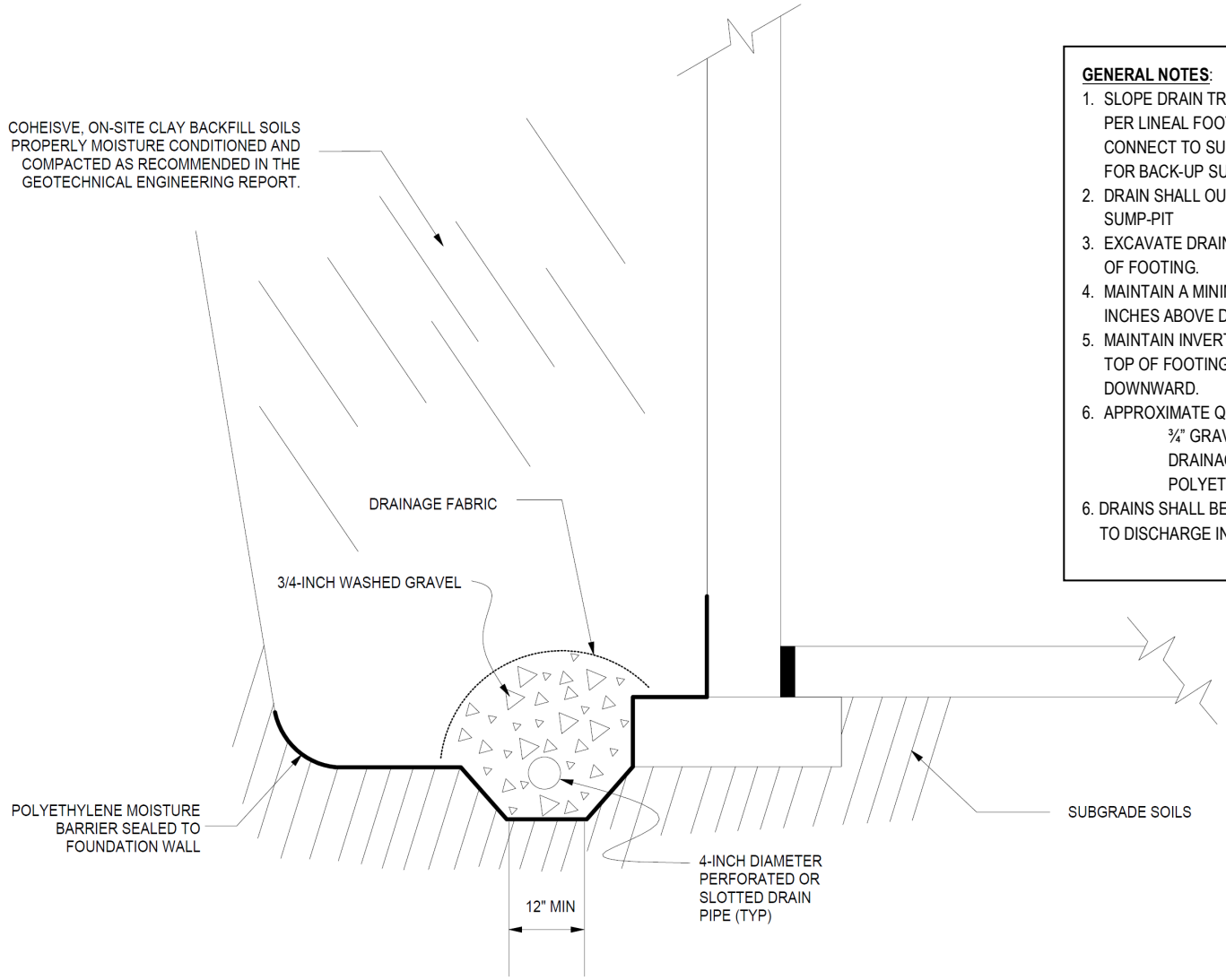
TEST	SIGNIFICANCE	PURPOSE
California Bearing Ratio	Used to evaluate the potential strength of subgrade soil, subbase, and base course material, including recycled materials for use in road and airfield pavements.	***Pavement Thickness Design***
Consolidation	Used to develop an estimate of both the rate and amount of both differential and total settlement of a structure.	***Foundation Design***
Direct Shear	Used to determine the consolidated drained shear strength of soil or rock.	***Bearing Capacity, Foundation Design, and Slope Stability***
Dry Density	Used to determine the in-place density of natural, inorganic, fine-grained soils.	***Index Property Soil Behavior***
Expansion	Used to measure the expansive potential of fine-grained soil and to provide a basis for swell potential classification.	***Foundation and Slab Design***
Gradation	Used for the quantitative determination of the distribution of particle sizes in soil.	***Soil Classification***
Liquid & Plastic Limit, Plasticity Index	Used as an integral part of engineering classification systems to characterize the fine-grained fraction of soils, and to specify the fine-grained fraction of construction materials.	***Soil Classification***
Permeability	Used to determine the capacity of soil or rock to conduct a liquid or gas.	***Groundwater Flow Analysis***
pH	Used to determine the degree of acidity or alkalinity of a soil.	***Corrosion Potential***
Resistivity	Used to indicate the relative ability of a soil medium to carry electrical currents.	***Corrosion Potential***
R-Value	Used to evaluate the potential strength of subgrade soil, subbase, and base course material, including recycled materials for use in road and airfield pavements.	***Pavement Thickness Design***
Soluble Sulfate	Used to determine the quantitative amount of soluble sulfates within a soil mass.	***Corrosion Potential***
Unconfined Compression	To obtain the approximate compressive strength of soils that possess sufficient cohesion to permit testing in the unconfined state.	***Bearing Capacity Analysis for Foundations***
Water Content	Used to determine the quantitative amount of water in a soil mass.	***Index Property Soil Behavior***

REPORT TERMINOLOGY
(Based on ASTM D653)

Allowable Soil Bearing Capacity	The recommended maximum contact stress developed at the interface of the foundation element and the supporting material.
Alluvium	Soil, the constituents of which have been transported in suspension by flowing water and subsequently deposited by sedimentation.
Aggregate Base Course	A layer of specified material placed on a subgrade or subbase usually beneath slabs or pavements.
Backfill	A specified material placed and compacted in a confined area.
Bedrock	A natural aggregate of mineral grains connected by strong and permanent cohesive forces. Usually requires drilling, wedging, blasting or other methods of extraordinary force for excavation.
Bench	A horizontal surface in a sloped deposit.
Caisson (Drilled Pier or Shaft)	A concrete foundation element cast in a circular excavation which may have an enlarged base. Sometimes referred to as a cast-in-place pier or drilled shaft.
Coefficient of Friction	A constant proportionality factor relating normal stress and the corresponding shear stress at which sliding starts between the two surfaces.
Colluvium	Soil, the constituents of which have been deposited chiefly by gravity such as at the foot of a slope or cliff.
Compaction	The densification of a soil by means of mechanical manipulation
Concrete Slab-on-Grade	A concrete surface layer cast directly upon a base, subbase or subgrade, and typically used as a floor system.
Differential Movement	Unequal settlement or heave between, or within foundation elements of structure.
Earth Pressure	The pressure exerted by soil on any boundary such as a foundation wall.
ESAL	Equivalent Single Axle Load, a criteria used to convert traffic to a uniform standard, (18,000 pound axle loads).
Engineered Fill	Specified material placed and compacted to specified density and/or moisture conditions under observations of a representative of a geotechnical engineer.
Equivalent Fluid	A hypothetical fluid having a unit weight such that it will produce a pressure against a lateral support presumed to be equivalent to that produced by the actual soil. This simplified approach is valid only when deformation conditions are such that the pressure increases linearly with depth and the wall friction is neglected.
Existing Fill (or Man-Made Fill)	Materials deposited throughout the action of man prior to exploration of the site.
Existing Grade	The ground surface at the time of field exploration.

REPORT TERMINOLOGY
(Based on ASTM D653)

Expansive Potential	The potential of a soil to expand (increase in volume) due to absorption of moisture.
Finished Grade	The final grade created as a part of the project.
Footing	A portion of the foundation of a structure that transmits loads directly to the soil.
Foundation	The lower part of a structure that transmits the loads to the soil or bedrock.
Frost Depth	The depth at which the ground becomes frozen during the winter season.
Grade Beam	A foundation element or wall, typically constructed of reinforced concrete, used to span between other foundation elements such as drilled piers.
Groundwater	Subsurface water found in the zone of saturation of soils or within fractures in bedrock.
Heave	Upward movement.
Lithologic	The characteristics which describe the composition and texture of soil and rock by observation.
Native Grade	The naturally occurring ground surface.
Native Soil	Naturally occurring on-site soil, sometimes referred to as natural soil.
Optimum Moisture Content	The water content at which a soil can be compacted to a maximum dry unit weight by a given compactive effort.
Perched Water	Groundwater, usually of limited area maintained above a normal water elevation by the presence of an intervening relatively impervious continuous stratum.
Scarify	To mechanically loosen soil or break down existing soil structure.
Settlement	Downward movement.
Skin Friction (Side Shear)	The frictional resistance developed between soil and an element of the structure such as a drilled pier.
Soil (Earth)	Sediments or other unconsolidated accumulations of solid particles produced by the physical and chemical disintegration of rocks, and which may or may not contain organic matter.
Strain	The change in length per unit of length in a given direction.
Stress	The force per unit area acting within a soil mass.
Strip	To remove from present location.
Subbase	A layer of specified material in a pavement system between the subgrade and base course.
Subgrade	The soil prepared and compacted to support a structure, slab or pavement system.



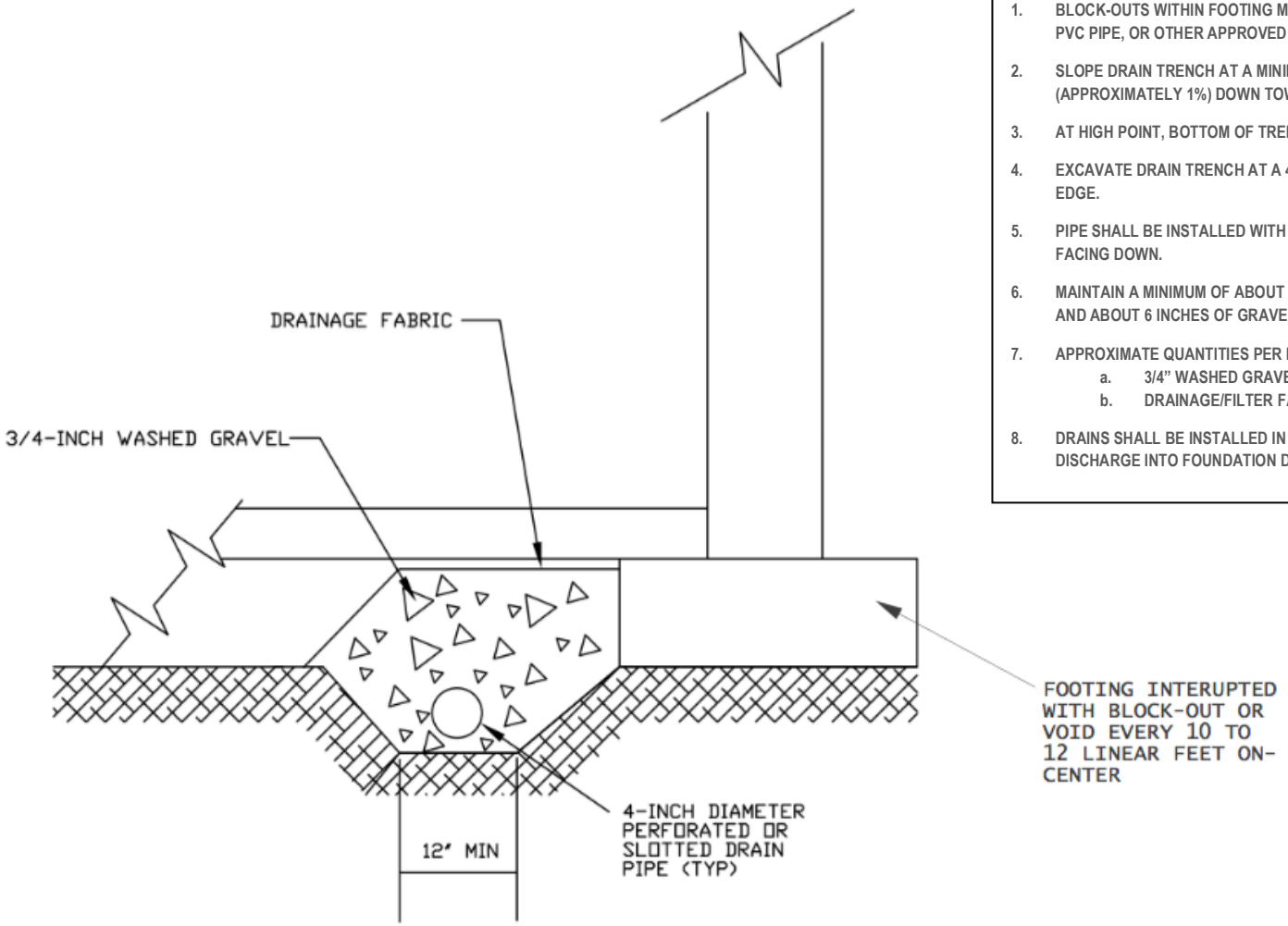
GENERAL NOTES:

1. SLOPE DRAIN TRENCH AND PIPE AT A MINIMUM OF 1/8-INCH FALL PER LINEAL FOOT TO PLANNED OUTFALL. WHERE PRESENT, CONNECT TO SUBDIVISION UNDERDRAIN SYSTEM AND PROVIDE FOR BACK-UP SUMP PIT SYSTEM (OPTIONAL).
2. DRAIN SHALL OUTFALL USING SOLID PIPE INTO UNDERDRAIN OR SUMP-PIT
3. EXCAVATE DRAIN TRENCH AT A MAXIMUM SLOPE OF 1:1 FROM EDGE OF FOOTING.
4. MAINTAIN A MINIMUM OF 2 TO 3-INCHES OF GRAVEL BELOW AND 6-INCHES ABOVE DRAIN PIPES.
5. MAINTAIN INVERT OF DRAIN PIPE A MINIMUM OF 6 INCHES BELOW TOP OF FOOTING. PERFORATIONS SHOULD BE POINTING DOWNWARD.
6. APPROXIMATE QUANTITIES (PER LINEAL FOOT):
   ¾" GRAVEL = 1-½ CUBIC FT.
   DRAINAGE FABRIC = 2 SQUARE FT.
   POLYETHYLENE = 6 SQUARE FT.
6. DRAINS SHALL BE INSTALLED IN WINDOW WELLS AND CONNECTED TO DISCHARGE INTO FOUNDATION DRAIN SYSTEM.

NOT TO SCALE

TYPICAL EXTERIOR
PERIMETER DRAIN DETAIL
FOOTING FOUNDATION

Cole Garner Geotechnical
1070 W. 124th Ave., Suite 300
Westminster, CO 80234
(303) 996-2999



GENERAL NOTES:

1. BLOCK-OUTS WITHIN FOOTING MAY BE FORMED USING CARDBOARD VOID, SOLID PVC PIPE, OR OTHER APPROVED METHOD
2. SLOPE DRAIN TRENCH AT A MINIMUM OF 1/8" PER LINEAL FOOT (APPROXIMATELY 1%) DOWN TOWARD OUTFALL.
3. AT HIGH POINT, BOTTOM OF TRENCH SHOULD BE 6 INCHES BELOW FOOTING.
4. EXCAVATE DRAIN TRENCH AT A 45-DEGREE ANGLE (1:1) DOWN FROM FOOTING EDGE.
5. PIPE SHALL BE INSTALLED WITH SLOPE TO MATCH THE TRENCH, PERFORATIONS FACING DOWN.
6. MAINTAIN A MINIMUM OF ABOUT 2 TO 3 INCHES OF GRAVEL BELOW THE PIPE AND ABOUT 6 INCHES OF GRAVEL ABOVE THE PIPE.
7. APPROXIMATE QUANTITIES PER LINEAL FOOT:
   a. 3/4" WASHED GRAVEL: 1.5 CUBIC FEET
   b. DRAINAGE/FILTER FABRIC: 2 SQUARE FEET
8. DRAINS SHALL BE INSTALLED IN WINDOW WELLS AND CONNECTED TO DISCHARGE INTO FOUNDATION DRAIN SYSTEM

NOT TO SCALE

TYPICAL INTERIOR
PERIMETER DRAIN DETAIL
FOOTING FOUNDATION

Cole Garner Geotechnical
1070 W. 124th Ave., Suite 300
Westminster, CO 80234
(303) 996-2999

APPENDIX B

SITE REDEVELOPMENT PLANS

ERIE JUNCTION
CONSTRUCTION PLANS SP-XXXXXXX

SITUATED IN THE SW CORNER OF SECTION 18, T1N, R68W OF THE 6TH PRINCIPAL MERIDIAN
TOWN OF ERIE, COUNTY OF WELD, STATE OF COLORADO
2.73 ACRES - 23 LOTS / 4 TRACTS

PROJECT LOCATION MAP
NORTH
1"=3000'

LIST OF PROJECT CONTACTS

ARCHITECT
STEWART ARCHITECTURE
1132 JEFFERSON AVENUE
LOUISVILLE, CO 80027
(303)665-6668

LANDSCAPE ARCHITECT
MUNDING DESIGN LANDSCAPE
ARCHITECTURE AND IRRIGATION DESIGN
CONTACT: KURT MUNDING
233 SAINT IDA CIRCLE
LAFAYETTE, COLORADO 80026
(720)273-3884

ENGINEER
CIVIL RESOURCES, LLC
CONTACT: JAMES A. BRZOSTOWICZ
8308 COLORADO BLVD, STE 200
FIRESTONE, CO 80504
(303) 833-1416 (P) (303) 833-2850 (F)

LIST OF TOWN, COUNTY AND UTILITY CONTACTS

TOWN
TOWN OF ERIE
645 HOLBROOK STREET
ERIE, CO 80516
(303) 926-2700 (P)

GAS
XCEL ENERGY
ATTN: JOHN SEADLER
2655 NORTH 63RD STREET
BOULDER, CO 80301
(303) 245-2307 (P)
(720)610-2509

FIRE
MOUNTAIN VIEW FIRE PROTECTION DISTRICT
9119 E COUNTY LINE ROAD
LONGMONT, CO 80501
(303) 684-5550

ELECTRIC
XCEL ENERGY
ATTN: JOHN SEADLER
2655 NORTH 63RD STREET
BOULDER, CO 80301
(303) 245-2307 (P)
(720)610-2509

WATER & SANITARY
TOWN OF ERIE
640 HOLBROOK STREET
ERIE, CO 80516
(303) 926-2700 (P)

TELEPHONE
CENTURY LINK
5325 ZUNI STREET
DENVER, CO 80221
(303) 992-0995 (P)

CABLE
COMCAST CABLE
6850 SOUTH TUCSON WAY
ENGLEWOOD, CO 80112
(303) 603-5628

LEGAL DESCRIPTION
LOTS 1 THROUGH 24 TOGETHER WITH TRACTS A-D ERIE JUNCTION FINAL PLAT

BASIS OF BEARINGS
GPS DERIVED BEARINGS BASED ON A BEARING OF N00°24'01"W ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 18, BETWEEN A FOUND 3 1/4" BRASS CAP IN MONUMENT BOX, ILLEGIBLE AT THE SOUTHWEST CORNER OF SECTION 18 AND A FOUND 2 1/2" ALUMINUM CAP, ILLEGIBLE IN MONUMENT BOX AT THE WEST 1/4 CORNER OF SECTION 18 AS SHOWN HEREIN. COLORADO PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD83). ALL BEARINGS SHOWN HEREON ARE RELATIVE THERETO.

PREPARED BY:
CIVIL RESOURCES, LLC
8308 COLORADO BLVD, STE 200
FIRESTONE, CO 80504
303 833 1416

PREPARED FOR:
DIVERGE
400 E. SIMPSON, STE 120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

SHEET NUMBER	SHEET TITLE
C1.0	COVER
C1.1	NOTES 1
C1.2	NOTES 2
C2.0	SITE PLAN
C4.0	MASTER UTILITY PLAN
C4.1	WATER LINE PLAN & PROFILE 1
C4.2	WATER LINE PLAN & PROFILE 2
C5.1	SANITARY SEWER PLAN & PROFILE 1
C5.2	SANITARY SEWER PLAN & PROFILE 2
C6.1	STORM SEWER PLAN & PROFILE 1
C6.2	STORM SEWER PLAN & PROFILE 2
C6.3	STORM SEWER PLAN & PROFILE 3
C7.0	OVERALL GRADING PLAN
C7.1	ENLARGED GRADING PLAN 1
C7.2	ENLARGED GRADING PLAN 2
C7.3	W. LAWLEY DR PLAN & PROFILE
C7.4	E. LAWLEY DR PLAN & PROFILE
C7.5	PRIVATE ALLEY PLAN & PROFILE
C7.6	PUBLIC ALLEY PLAN & PROFILE
C7.7	WALL PLAN & PROFILE
C8.0	STORMWATER MANAGEMENT PLAN - INITIAL
C8.1	STORMWATER MANAGEMENT PLAN - INTERIM
C8.2	STORMWATER MANAGEMENT PLAN - FINAL
C9.1	DETAILS 1
C9.2	DETAILS 2
C9.3	DETAILS 3
C9.4	DETAILS 4
C9.5	DETAILS 5
C9.6	DETAILS 6
C9.7	DETAILS 7
C9.8	DETAILS - EROSION CONTROL 1
C9.9	DETAILS - EROSION CONTROL 2
C9.10	DETAILS - EROSION CONTROL 3
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE NOTES AND DETAILS
L1.2	LANDSCAPE PLANT LIST
I1.0	IRRIGATION NOTES AND LEGEND
I1.1	IRRIGATION PLAN
I2.0	IRRIGATION DETAILS
I2.1	IRRIGATION DETAILS
--	BUILDING ELEVATIONS

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

CIVIL RESOURCES
8308 COLORADO BLVD
SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

stewart ARCHITECTURE
1132 JEFFERSON AVENUE
LOUISVILLE, CO 80027
303.665.6668

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAI
CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME: 31300101_Erie_CVR.dwg

COVER

811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG

SHEET: C1.0

J:\Diverge Homes - 31301\1.00 I.01 Erie Old Town\Drawings\SHEET SHEETS PLAN SET\31300101_Erie_CVR.dwg

GENERAL NOTES - CONSTRUCTION

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST "STANDARDS AND SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS" BY THE TOWN OF ERIE. COPIES OF THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS MAY BE OBTAINED FROM THE TOWN OF ERIE WEB SITE. CONTRACTOR SHALL HAVE A SET ON SITE AT ALL TIMES.

2. THE OWNER SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE TOWN OF ERIE ENGINEERING STAFF PRIOR TO THE START OF CONSTRUCTION. THOSE IN ATTENDANCE SHALL INCLUDE THE OWNER, HIS ENGINEER, THE TOWN OF ERIE ENGINEERING STAFF, REPRESENTATIVES OF THE CONTRACTORS AND OTHER AFFECTED AGENCIES. PLANS SIGNED AND ACCEPTED BY THE TOWN OF ERIE WILL BE DISTRIBUTED AT THE PRE- CONSTRUCTION MEETING. CONTRACTOR SHALL HAVE (1) COPY OF THE SIGNED PLANS ON SITE AT ALL TIMES.

3. THE TOWN OF ERIE, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. THE OWNER AND DESIGN ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT. REPORT ALL DISCREPANCIES TO THE DESIGN ENGINEER IMMEDIATELY.

4. PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL OBTAIN ANY/ALL WRITTEN AGREEMENTS FOR INGRESS AND EGRESS TO THE WORK SITE FROM ADJACENT PRIVATE PROPERTY OWNERS. A COPY OF ALL AGREEMENTS SHALL BE PROVIDED TO THE TOWN. ACCESS TO ANY ADJACENT PRIVATE PROPERTY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

5. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF ERIE ENGINEERING STAFF. THE TOWN RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO TOWN STANDARDS AND SPECIFICATIONS. INSPECTIONS AND ONSITE VISITS ARE NOT TO BE CONSTRUED AS A GUARANTEE BY THE TOWN ENGINEERING STAFF OF THE CONTRACTORS' CONTRACTUAL COMMITMENT. REQUESTS FOR INSPECTION BY THE TOWN OF ERIE SHALL BE MADE BY THE CONTRACTOR A MINIMUM OF TWENTY-FOUR
   (24) HOURS IN ADVANCE.
6. CONSTRUCTION WATER IS AVAILABLE TO THE CONTRACTOR AS ESTABLISHED IN THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE TOWN OF ERIE REGARDING CURRENT REGULATIONS, FEES AND REQUIRED AGREEMENTS RELATED TO THE PROVISION OF CONSTRUCTION WATER.

7. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE AFFECTED UTILITY COMPANIES AND SHALL NOTIFY THE UTILITY NOTIFICATION CENTER, PHONE NUMBER 811, THREE (3) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION.

8. UTILITIES IN THE AREA OF CONSTRUCTION ARE APPROXIMATE ONLY. THEY HAVE BEEN LOCATED FROM FIELD INVESTIGATION AND THE BEST AVAILABLE UTILITY RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL CONTACT ALL RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD-LOCATED PRIOR TO CONSTRUCTION. IF ANY UNKNOWN SUBSURFACE STRUCTURES ARE ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE TOWN OF ERIE ENGINEERING STAFF AND DESIGN ENGINEER PRIOR TO PROCEEDING.

9. THE CONTRACTOR SHALL NOTIFY TOWN OF ERIE ENGINEERING STAFF OF ANY PROBLEM IMPACTING WATER AND WASTE WATER FACILITIES THAT WOULD POTENTIALLY REQUIRE A VARIANCE FROM THE APPROVED PLANS AND SPECIFICATIONS. ANY VARIANCE FROM THE APPROVED DOCUMENTS SHALL BE AT THE SOLE DISCRETION OF THE TOWN OF ERIE ENGINEERING STAFF.

10. CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE SPECIFICATIONS AND PERMITS NECESSARY TO PERFORM THE PROPOSED WORK.

11. AS-BUILT DRAWINGS AS REQUIRED IN THE SPECIFICATIONS, ARE TO BE SUBMITTED BY THE OWNER/DEVELOPER PRIOR TO INITIAL ACCEPTANCE OF THE CONSTRUCTION.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING SIGNS, STRUCTURES, FENCES, ETC., ENCOUNTERED ON THE JOB AND RESTORING THEM TO THEIR ORIGINAL CONDITION.
13. THE CONTRACTOR IS RESPONSIBLE FOR:
    A. NOTIFYING THE TOWN OF ERIE UTILITY CUSTOMERS OF POTENTIAL SERVICE OUTAGES, AND COORDINATE WITH THE TOWN OF ERIE FOR DETERMINATION OF MINIMUM TIME REQUIREMENT.
    B. NOTIFYING THE TOWN OF ERIE ENGINEERING STAFF IF WORK IS SUSPENDED FOR ANY PERIOD OF TIME AFTER INITIAL START-UP. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ERIE FORTY-EIGHT (48) HOURS PRIOR TO RESTART.
    C. IN THE EVENT OF AN AFTER HOURS EMERGENCY, CALL 303-441-4444.
    D. NOTIFYING THE MOUNTAIN VIEW FIRE PROTECTION DISTRICT OF ALL STREET CLOSURES AND EXISTING FIRE HYDRANTS TAKEN OUT OF SERVICE A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
14. PRIOR TO INSTALLATION OF UTILITY MAINS, ROAD CONSTRUCTION MUST HAVE COMPLETED THE OVER LOT GRADING STAGE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER MUST BE MANAGED PER THE REQUIREMENTS IDENTIFIED BY THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE). GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS OR EROSION OF ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. THE USE OF ANY SANITARY SEWER TO DISPOSE OF TRENCH WATER WILL NOT BE PERMITTED. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, THE TOWN OF ERIE, AND THE DESIGN ENGINEER AT THE TIME OF THE OCCURRENCE
16. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO RESOLVE CONSTRUCTION PROBLEMS WITH THE TOWN OF ERIE DUE TO CHANGED CONDITIONS ENCOUNTERED BY THE CONTRACTOR DURING THE PROGRESS OF ANY PORTION OF THE PROPOSED WORK. IF, IN THE OPINION OF THE TOWN OF ERIE, PROPOSED ALTERATIONS TO THE SIGNED CONSTRUCTION PLANS INVOLVES SIGNIFICANT CHANGES TO THE CHARACTER OF THE WORK, OR TO THE FUTURE CONTIGUOUS PUBLIC OR PRIVATE IMPROVEMENTS, THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR SUBMITTING REVISED PLANS TO THE TOWN OF ERIE FOR REVIEW, PRIOR TO ANY FURTHER CONSTRUCTION RELATED TO THAT PORTION OF THE WORK.
17. DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. THE TOWN OF ERIE OR THE DESIGN ENGINEER EXERCISE NO CONTROLS OVER THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENTS, SCAFFOLDING, FORMS OR OTHER WORK AIDS USED IN OR ABOUT THE PROJECT, OR IN THE SUPERINTENDING OF THE SAME. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE DESIGN ENGINEER OR THE TOWN. THE TOWN OF ERIE ENGINEERING STAFF, OR ANY CONTRACTED ENGINEER, ARE NOT RESPONSIBLE FOR SAFETY IN, ON OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY OF ANY REGULATIONS RELATING THERETO.
18. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
19. REGULAR WORK HOURS ARE SEVEN (7) A.M. UNTIL SEVEN (7) P.M. OR DUSK (WHICHEVER OCCURS FIRST) OF THE SAME DAY, MONDAY THROUGH FRIDAY. THE CONTRACTOR WILL NOT PERMIT OVERTIME WORK OUTSIDE OF REGULAR WORKING HOURS OR THE PERFORMANCE OF WORK ON SATURDAY, SUNDAY OR ANY LEGAL HOLIDAY WITHOUT RECEIVING WRITTEN CONSENT FROM THE TOWN ENGINEER. REQUESTS FOR WEEKEND WORK APPROVAL MUST BE SUBMITTED, IN WRITING TO THE TOWN OF ERIE NO LATER THAN WEDNESDAYS AT 3:30 PM FOR SUBSEQUENT WEEKEND AND REQUESTS FOR HOLIDAY WORK APPROVAL MUST BE SUBMITTED, IN WRITING TO THE TOWN OF ERIE NO LATER THAN 7:00 AM – 2 BUSINESS DAYS PRIOR TO THE HOLIDAY. WHEN APPROVED, STANDARD WORK HOURS FOR WEEKENDS AND HOLIDAYS ARE EIGHT (8) A.M. UNTIL FOUR (4) P.M. OR AS STIPULATED BY THE TOWN ENGINEER. WORK HOURS FOR WORK IN ACTIVE ROW SHALL BE SUBJECT TO APPROVAL OF THE TOWN ENGINEER AND SHALL BE CONSIDERED ON A CASE BY CASE BASIS. ALL EXPENSES INCURRED BY THE TOWN SHALL BE REIMBURSED AT A RATE TO BE DETERMINED BY DIRECTOR OF FINANCE.

20. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK. THE OWNER/CONTRACTOR IS
    RESPONSIBLE FOR OBTAINING ALL APPROPRIATE PERMITS FROM BOTH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT AND THE TOWN OF ERIE FOR ANY PROJECT DISTURBING ONE ACRE OR MORE OR ANY PROJECT LESS THAN ONE ACRE THAT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT.

21. EACH TYPE OF CONSTRUCTION SHALL BE COMPLETED BY A CONTRACTOR THAT HAS DEMONSTRATED ACCEPTABLE QUALIFICATIONS TO THE TOWN AND IS A LICENSED CONTRACTOR IN THE TOWN OF ERIE.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION. ALL TRAFFIC CONTROLS SHALL CONFORM TO THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD) LATEST EDITIONS. A PLAN SHALL BE SUBMITTED TO THE TOWN FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.

23. ALL BACKFILL SHALL CONFORM TO THE TRENCH DETAIL LOCATED IN THE TOWN OF ERIE STANDARDS & SPECIFICATIONS.

24. THE OWNER/OPERATOR IS RESPONSIBLE FOR ENSURING THE IMMEDIATE REMOVAL OF ANY CONSTRUCTION DEBRIS OR MUD TRACKED ONTO EXISTING ROADWAYS.

25. THE CONTRACTOR SHALL REPAIR ANY EXCAVATION OR PAVEMENT FAILURES CAUSED BY HIS CONSTRUCTION.

26. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS, WHICH HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED DURING HIS OPERATION. RENEWAL OF PAVEMENT STRIPING AND MARKING SHALL BE DONE IN CONFORMANCE WITH THE TOWN OF ERIE STANDARD SPECIFICATIONS.

27. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE EVERY MEASURE NECESSARY TO COMPLY WITH ANY STATE, COUNTY OR TOWN DUST CONTROL ORDINANCE.

28. CONSTRUCTION VEHICLES SHALL USE TRUCK ROUTES DESIGNATED BY THE TOWN.

29. THE OWNER/DEVELOPER WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF THE IMPROVEMENTS FOR A MINIMUM OF TWO (2) YEARS FROM THE DATE OF INITIAL ACCEPTANCE OF THE IMPROVEMENTS BY THE TOWN OF ERIE. ANY FAILURE DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE OWNER/CONTRACTOR TO THE SATISFACTION OF THE TOWN OF ERIE AT NO EXPENSE TO THE TOWN.

30. THE SOILS ENGINEER SHALL PERFORM SUFFICIENT INSPECTIONS DURING GRADING AND CONSTRUCTION SO THAT AN OPINION CAN BE RENDERED AND VERIFIED IN WRITING AS TO COMPLIANCE WITH THE PLANS AND CODES WITHIN THE SOILS ENGINEER'S PURVIEW.

31. THE CONTRACTOR SHALL NOTIFY THE TOWN WITHIN 24 HOURS OF BECOMING AWARE OF A DISCHARGE OF ANY POLLUTANT INTO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4). THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO THE MS4, RECEIVING WATERS, WATERWAYS, WETLANDS, OR OTHER PUBLIC OR PRIVATE PROPERTIES, RESULTING FROM WORK DONE AS PART OF THIS PROJECT.

GENERAL NOTES - GRADING

1. ALL CONSTRUCTION ACTIVITIES THAT DISTURBS ONE OR MORE ACRES OF LAND, AS WELL AS ACTIVITIES THAT DISTURB LESS THAN ONE ACRE OF LAND, BUT IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT, MUST COMPLY WITH BOTH LOCAL AND STATE REGULATIONS REGARDING STORMWATER DRAINAGE ON CONSTRUCTION SITES. OWNERS OR CONTRACTORS MUST OBTAIN A COLORADO STORMWATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) AND A GRADING AND STORMWATER QUALITY PERMIT FROM THE TOWN OF ERIE. CONTRACTOR SHALL:
   A. MAINTAIN A COPY OF THE STORM WATER MANAGEMENT PLAN (SWMP) ONSITE AT ALL TIMES OR PROVIDE AN UPDATED DIGITAL COPY WITHIN TWO BUSINESS DAYS UPON REQUEST. THE SWMP MUST BE MAINTAINED AND MADE AVAILABLE TO TOWN OF ERIE INSPECTORS UPON REQUEST.
   B. INSTALL AND MAINTAIN EROSION, SEDIMENT, AND MATERIALS MANAGEMENT CONTROL MEASURE AS SPECIFIED IN THE SWMP.
   C. INSPECT ALL CONTROL MEASURES AT LEAST EVERY SEVEN (7) DAYS OR EVERY FOURTEEN (14) DAYS AND WITHIN TWENTY FOUR (24) HOURS AFTER ANY PRECIPITATION OR SNOWMELT EVENT THAT CAUSES SURFACE RUNOFF.
   D. MAINTAIN INSPECTION AND MAINTENANCE RECORDS OF CONTROL MEASURES WITH THE SWMP. COPIES OF THESE REPORTS SHALL BE PROVIDED TO THE TOWN OF ERIE ENGINEERING STAFF.
   E. BASED ON INSPECTIONS PERFORMED BY THE PERMIT HOLDER OR BY TOWN PERSONNEL, MODIFICATIONS TO THE SWMP WILL BE NECESSARY IF AT ANY TIME THE SPECIFIED CONTROL MEASURES DO NOT MEET THE OBJECTIVES OF THE PERMIT. ALL MODIFICATIONS SHALL BE COMPLETED AS SOON AS PRACTICABLE AFTER THE REFERENCED INSPECTION, AND SHALL BE RECORDED ON THE OWNER'S COPY OF THE SWMP.
   F. THE OPERATOR SHALL AMEND THE SWMP WHENEVER THERE IS A SIGNIFICANT CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS TO THE RECEIVING WATERS, OR IF THE SWMP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
   G. INSTALLATION AND MAINTENANCE OF CONTROL MEASURES SHALL BE SUPERVISED BY PERSONNEL CERTIFIED IN EROSION AND SEDIMENT CONTROL.
   H. ALL APPROPRIATE CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF EACH CONSTRUCTION PHASE.
   I. APPROPRIATE STABILIZED CONSTRUCTION ENTRANCES WITH VEHICLE TRACKING CONTROLS INSTALLED SHALL BE UTILIZED AT ALL TIMES TO REDUCE THE TRACKOUT OF SEDIMENT. IF NON- STRUCTURAL VEHICLE TRACKING CONTROLS ARE UTILIZED, CLEANUP OF TRACKOUT MUST OCCUR AT THE END OF EVERY BUSINESS DAY WITH CONSTRUCTION ACTIVITY OCCURING.
2. ALL SITE GRADING (EXCAVATION, EMBANKMENT, AND COMPACTION) SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST SOILS INVESTIGATION FOR THIS PROPERTY AND SHALL FURTHER BE IN CONFORMANCE WITH THE TOWN OF ERIE "STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION.
3. ALL GRADING AND FILLING OPERATIONS SHALL BE OBSERVED, INSPECTED AND TESTED BY A LICENSED SOILS ENGINEER. ALL TEST RESULTS SHALL BE SUBMITTED TO THE TOWN OF ERIE ENGINEERING STAFF.
4. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATION AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AVOID ANY DAMAGE TO EXISTING FOLIAGE THAT LIES IN THE PROJECT AREA UNLESS DESIGNATED FOR REMOVAL AND SHALL BE LIABLE FOR SUCH DAMAGE AT HIS/HER EXPENSE.
5. TOPSOIL SHALL BE STOCKPILED TO THE EXTENT PRACTICABLE ON THE SITE FOR USE ON AREAS TO BE RE-VEGETATED. ANY AND ALL STOCKPILES SHALL BE LOCATED AND PROTECTED FROM EROSIVE ELEMENTS. IF MATERIALS ARE STORED OFFSITE, A WRITTEN USE AGREEMENT BETWEEN THE PERMITTEE AND THE OWNER/OPERATOR OF ANY CONTROL MEASURES BEING UTILIZED OUTSIDE OF THE PERMITTED AREA MUST BE MADE AVAILABLE TO TOWN PERSONNEL UPON REQUEST.
6. TEMPORARY VEGETATION/STABILIZATION SHALL BE INSTALLED ON ALL DISTURBED AREAS WHERE PERMANENT SURFACE IMPROVEMENTS ARE NOT SCHEDULED FOR IMMEDIATE INSTALLATION BUT NO LATER THAN FOURTEEN (14) DAYS. SEEDING WILL BE DONE ACROSS THE SLOPE FOLLOWING THE CONTOURS. VEGETATION SHALL CONFORM TO THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS. PROJECT SCHEDULING SHOULD TAKE ADVANTAGE OF SPRING OR FALL PLANTING SEASONS FOR NATURAL GERMINATION. SEEDED AREAS SHALL BE IRRIGATED IN ACCORDANCE WITH THE TOWN OF ERIE'S STANDARDS AND SPECIFICATIONS.
7. AT ALL TIMES, A WATER TRUCK SHALL BE ON-SITE AND THE PROPERTY SHALL BE MAINTAINED AND/OR WATERED TO PREVENT WIND-CAUSED EROSION. EARTHWORK OPERATIONS SHALL BE DISCONTINUED WHEN FUGITIVE DUST SIGNIFICANTLY IMPACTS ADJACENT PROPERTY. IF EARTHWORK IS COMPLETE OR DISCONTINUED AND DUST FROM THE SITE CONTINUES TO CREATE PROBLEMS, THE OWNER/DEVELOPER SHALL IMMEDIATELY INSTITUTE MITIGATIVE MEASURES AND SHALL CORRECT DAMAGE TO ADJACENT PROPERTY.
8. FILL SLOPES SHALL BE COMPACTED BY MEANS OF SHEEPSFOOT COMPACTOR OR OTHER SUITABLE EQUIPMENT. COMPACTING SHALL CONTINUE UNTIL SLOPES ARE STABLE AND THERE IS NOT AN APPRECIABLE AMOUNT OF LOOSE SOIL ON THE SLOPES.
9. TEMPORARY CUT/FILL SLOPES SHALL ABIDE BY THE SOILS REPORT. PERMANENT SLOPES SHALL BE AS SHOWN ON PLANS.
10. DEPTH OF MOISTURE-DENSITY CONTROL SHALL BE FULL DEPTH ON ALL EMBANKMENT AND SIX (6) INCHES ON THE BASE OF CUTS AND FILLS.
11. OUTLET SIDES OF ALL STORM PIPES SHALL BE GRADED TO DRAIN AND SHALL HAVE SUFFICIENT EROSION PROTECTION.
12. THE PERMITTEE OR HIS AGENT SHALL NOTIFY THE SITE GEOTECHNICAL ENGINEER WHEN THE GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:
    A. INITIAL INSPECTION WHEN THE PERMITTEE IS READY TO BEGIN WORK, BUT NOT LESS THAN TWO (2) DAYS BEFORE ANY GRADING OR GRUBBING IS STARTED.
    B. AFTER THE NATURAL GROUND OR BEDROCK IS EXPOSED AND PREPARED TO RECEIVE FILL, BUT BEFORE FILL IS PLACED.
    C. EXCAVATION INSPECTION AFTER THE EXCAVATION IS STARTED BUT BEFORE THE VERTICAL DEPTH OF THE EXCAVATION EXCEEDS TEN (10) FEET.
    D. FILL INSPECTION AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE FILL EXCEEDS TEN (10) FEET.

GENERAL NOTES - ROADWAY

1. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL PREPARE THE SUBGRADE BY SCARIFYING THE UPPER ONE (1) FOOT OF THE SUBGRADE IN CUT AREAS OR AREAS WITH LITTLE OR NO FILL, UNLESS SPECIFIED IN THE SOILS REPORT. THE WORK SHALL CONFORM TO THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL ALL UNDERGROUND UTILITIES HAVE BEEN INSTALLED, TESTED AND ACCEPTED BY THE TOWN OF ERIE ENGINEERING STAFF.
4. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO SUPERVISE AND CERTIFY THAT PROPER COMPACTION HAS BEEN OBTAINED BY SUBCONTRACTORS AND AGENCIES CONCERNING UTILITY LINE BACKFILL INCLUDING, BUT NOT LIMITED TO, SEWER, WATER, ELECTRICAL, GAS AND LANDSCAPE IRRIGATION LINES AND ACCEPTED BY THE TOWN OF ERIE ENGINEERING STAFF AND THE SOILS ENGINEER.
5. STREET PAVING SHALL NOT START UNTIL:
   a. A SOILS REPORT AND PAVEMENT DESIGN IS ACCEPTED BY THE TOWN OF ERIE ENGINEERING STAFF.
   b. ALL STREETS ARE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT AND THE TOWN OF ERIE SPECIFICATIONS.
   c. ALL COMPACTION TEST REPORTS HAVE BEEN SUBMITTED TO THE TOWN ENGINEERING STAFF PRIOR TO PROOF ROLLS.
   d. PROOF ROLLS ARE PERFORMED USING A LOADED SINGLE AXLE 2000 GALLON WATER TRUCK AND MONITORED BY THE TOWN OF ERIE ENGINEERING STAFF.
6. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL UTILITY MANHOLE COVERS AND ACCESS LIDS TO GRADE.
7. ALL CONCRETE SHALL BE A MINIMUM OF CLASS B, IN CONFORMANCE WITH CDOT STANDARDS.
8. ALL CONCRETE EDGES MUST BE ROUNDED TO A FOURTH (1/4) INCH RADIUS, EXCEPT WHERE SHOWN OTHERWISE ON DRAWINGS.
9. ONE HALF (1/2) INCH EXPANSION JOINTS SHALL BE INSTALLED AT ALL CURB RETURNS, CURB CUTS AND EXISTING STRUCTURES. CONTROL JOINTS SHALL BE INSTALLED PER THE TOWNS STANDARDS AND SPECIFICATIONS.
10. BEFORE PLACING OF ASPHALT THE SUBGRADE SHALL RECEIVE A GROUND STERILANT APPLIED AT A RATE IN ACCORDANCE TO MANUFACTURERS RECOMMENDATIONS.
11. THE GRADATION OF THE MINERAL AGGREGATE WILL BE GRADING SX (1/2" NOMINAL) FOR ALL TOP LIFTS AND OVERLAYS.
12. TACK COAT SHALL BE USED PRIOR TO OVERLAY, (CSS-1H), 50:50 DILUTION, 0.10 GAL/SY. ALL EDGES ABUTTING NEW PAVEMENT SHALL BE TACKED.
13. WHEN IT IS REQUIRED TO MATCH EXISTING PAVEMENT, EXISTING PAVEMENT SHALL BE SAW CUT IN A MANNER TO AFFECT A SMOOTH, VERTICAL STRAIGHT CUT EDGE. T PATCH MILLING MUST BE DONE PER STANDARD DETAILS.
14. ALL SAWCUT EDGES OF EXISTING PAVEMENT SHALL BE CLEAN AND COATED WITH TACK COAT PRIOR TO PLACING NEW PAVEMENT ADJACENT TO THE EXISTING PAVEMENT.
15. ALL ASPHALT SHALL BE ONE FOURTH (1/4) INCH ABOVE CONCRETE EDGES, MANHOLE COVERS AND ACCESS LIDS.
16. SIGNAGE AND STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE COLORADO DEPARTMENT OF TRANSPORTATION M&S STANDARDS, AND THE TOWN OF ERIE STANDARD DESIGN CRITERIA AND STANDARD CONSTRUCTION REQUIREMENTS.
17. THE PURCHASE AND INSTALLATION OF STREET NAME SIGNS SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR. THE OWNER/CONTRACTOR SHALL SECURE THE APPROVAL OF THE TOWN OF ERIE ENGINEERING STAFF FOR TYPE AND LOCATION OF THE STREET NAME SIGNS PRIOR TO INSTALLATION.
18. ALL NEW ROADWAY SECTIONS SHALL HAVE SUBGRADE PREPARATION AND INITIAL ASPHALT PAVEMENT PLACED WITH A 1% CROWN. FINAL OVERLAY IS TO BE PLACED WITH A 2% CROWN. SEE DETAIL ST7 IN THE "STANDARD DETAILS-STREET" FOR MORE INFORMATION.
19. DETERMINATION OF CROWN FOR CUL DE SAC PAVING SHALL BE EVALUATED ON A CASE BY CASE BASIS.

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DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAL
CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME: 31300101_Erie_CVR.dwg

NOTES 1

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GENERAL NOTES - SEWER

1. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING SEWERS TO BE CONNECTED TO PRIOR TO CONSTRUCTION STAKING.
2. CONNECTION TO EXISTING TOWN OF ERIE LINES WILL BE PERMITTED UPON INITIAL ACCEPTANCE OF THE NEW SANITARY SEWER SYSTEM. EXISTING PIPE AT THE POINT OF CONNECTION SHALL NOT BE "BROKEN OUT" UNTIL THE NEW SYSTEM IS ACCEPTED. IF CONNECTING TO AN EXISTING MANHOLE, THE NEW LINE SHALL BE PLUGGED UNTIL THE NEW SYSTEM IS ACCEPTED.
3. MINIMUM VERTICAL SEPARATIONS BETWEEN ALL UTILITY PIPES SHALL BE EIGHTEEN (18) INCHES. IF VERTICAL SEPARATIONS ARE LESS THAN EIGHTEEN (18) INCHES, THE UTILITY PIPES SHALL BE REINFORCED AND PROTECTED AS REQUIRED BY CURRENT TOWN STANDARD SPECIFICATIONS.
4. WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET. WHEN A TEN (10) FOOT SEPARATION IS NOT PROVIDED OR WHEN SEWER LINES CROSS WATER LINES WITH LESS THAN ONE AND ONE-HALF (1½) FEET OF VERTICAL SEPARATION, SEWER LINE JOINTS SHALL BE CONCRETE ENCASED. FOR PERPENDICULAR CROSSINGS, ENCASED JOINTS SHALL EXTEND TEN (10) FEET, PERPENDICULAR TO THE WATER LINE IN BOTH DIRECTIONS.
5. ALL SANITARY SEWER SERVICES AND WATER SERVICES ARE TO BE TEN (10) FEET APART.
6. SERVICE LATERALS SHALL EXTEND FIVE (5) FEET BEYOND RIGHTS OF WAY OR UTILITY EASEMENTS, WHICHEVER IS GREATER. THE ENDS SHALL BE MARKED BY A GREEN PAINTED WOOD POST UNTIL CURB AND GUTTER IS IN PLACE. WHEN CURB AND GUTTER IS IN PLACE THE LATERALS SHALL BE MARKED ON THE CONCRETE CURB FACE WITH AN "S" or "X".
7. THE LENGTH OF SANITARY SEWER LINE IS THE HORIZONTAL DISTANCE BETWEEN CENTER OF MANHOLE TO CENTER OF MANHOLE. THEREFORE, THE DISTANCES INDICATED ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND MANHOLE DIMENSIONS.
8. SERVICE LINE CONNECTIONS TO DEAD END MANHOLES THAT HAVE NO FURTHER POSSIBILITY OF EXTENSION SHALL BE ALLOWED AND SHALL HAVE A MINIMUM DROP OF 0.75 X MAIN DIAMETER. SERVICE LINE CONNECTINGS TO IN-LINE MANHOLES ARE NOT PERMITTED. MINIMUM SERVICE LINE SLOPE; 4 INCHES=2%; 6 INCHES= 1%; 8 INCHES=0.4%.
9. ALL FOUR (4) THROUGH FIFTEEN (15) INCH SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL BE IN ACCORDANCE WITH ASTM D-3034-SDR35, "STANDARD SPECIFICATION FOR PVC SEWER PIPE AND FITTINGS". ANY SANITARY SEWER HAVING A DEPTH IN EXCESS OF FIFTEEN (15) FEET SHALL BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT.
10. BEDDING MATERIAL SHALL CONFORM TO TOWN OF ERIE STANDARDS AND SPECIFICATIONS.
11. WARNING TAPE SHALL BE INSTALLED 12" MINIMUM AND 18" MAXIMUM ABOVE SEWER PIPE.
12. PRECAST CONCRETE MANHOLE SECTIONS SHALL BE IN ACCORDANCE WITH ASTM C-478. MANHOLE STEPS SHALL BE POLYPROPYLENE COVERED STEEL CONFORMING TO ASTM. D-4101 AND ASTMA-615. CAST IRON RING AND COVER SHALL CONFORM TO ASTM A-48.
13. MANHOLES SHALL BE A MINIMUM FOUR (4) FOOT DIAMETER AND CONSTRUCTED PER THE STANDARDS AND SPECIFICATIONS.
14. THE CONTRACTOR SHALL TAKE CARE TO PROPERLY SHAPE ALL MANHOLE INVERTS AND BENCHES IN ACCORDANCE WITH THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS, TO PROMOTE SMOOTH FLOW THROUGH THE MANHOLE. INVERTS OF LINES INTERSECTING AT 90 DEGREES AND AT HIGHLY DIVERGENT OR FLAT SLOPES ARE ESPECIALLY CRITICAL. MANHOLE INVERTS SHALL BE CONSTRUCTED WITH A SMOOTH TROWEL FINISH, AND BENCH FINISHED WITH A LIGHT BROOMED, NON-SKID, FINISH.
15. SEWER TEES AND/OR WYES SHALL BE STAKED BY A SURVEY CREW. THE CONTRACTOR SHALL FURNISH TO THE ENGINEER "AS- CONSTRUCTED" LOCATION OF TEES AND WYES. ALL SERVICE LINES ARE FOUR (4) INCH UNLESS OTHERWISE NOTED.
16. THE CONTRACTOR, AT THE OWNER'S EXPENSE, WILL MAKE ALL SEWER SERVICE TAPS.
17. PRIOR TO BACKFILL THE TOWN OF ERIE ENGINEERING STAFF SHALL INSPECT ALL SANITARY SEWER MAINS AND SERVICE EXTENSIONS.
18. MANHOLE RIMS SHALL BE SET AT AN ELEVATION RELATIVE TO THE PAVEMENT, IN ACCORDANCE WITH THE TOWN OF ERIE STANDARDS. WHETHER THE MANHOLE IS AT PAVED OR UNPAVED GRADE, A MINIMUM OF ONE (1) AND A MAXIMUM OF FOUR (4) CONCRETE RINGS SHALL BE USED TO ADJUST THE RIM ELEVATION TO FINAL GRADE. THE MAXIMUM ACCEPTABLE VERTICAL ADJUSTMENT UTILIZING CONCRETE RINGS IS EIGHTEEN (18) INCHES.
19. INITIAL ACCEPTANCE OF THE NEW SANITARY SEWER MAINS IS CONTINGENT UPON COMPLETION OF ITEMS LISTED IN THE TOWNS STANDARDS AND SPECIFICATIONS.

GENERAL NOTES - WATER

1. AT ALL POINTS OF CONNECTION OF NEW WATER MAINS TO EXISTING MAINS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING AND VERIFYING LOCATION OF THE EXISTING LINES PRIOR TO ANY CONSTRUCTION.
2. EXCEPT IN CASE OF AN EMERGENCY, VALVES ON THE TOWN OF ERIE WATER SYSTEM SHALL BE OPERATED BY OR UNDER THE DIRECTION OF THE APPROPRIATE TOWN OF ERIE PERSONNEL. THE CONTRACTOR SHALL GIVE THE TOWN OF ERIE ENGINEERING STAFF 48 HOURS NOTICE TO ARRANGE FOR OPERATING VALVES. BOTH THE CONTRACTOR AND THE APPROPRIATE TOWN OF ERIE PERSONNEL SHALL BE PRESENT WHEN THE VALVES ARE OPERATED.
3. WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET. WHEN A TEN (10) FOOT SEPARATION IS NOT PROVIDED OR WHEN SEWER LINES CROSS WATER LINES WITH LESS THAN ONE AND ONE-HALF (1½) FEET OF VERTICAL SEPARATION, SEWER LINE JOINTS SHALL BE CONCRETE ENCASED. FOR PERPENDICULAR CROSSINGS, ENCASED JOINTS SHALL EXTEND TEN (10) FEET, PERPENDICULAR TO THE WATER LINE IN BOTH DIRECTIONS.
4. ALL WATER LINES SHALL HAVE A MINIMUM OF FOUR AND ONE-HALF (4½) FEET OF COVER AND BE LOCATED A MINIMUM OF TEN (10) FEET FROM THE SANITARY SEWER AND THREE (3) FEET FROM THE EDGE OF CONCRETE CURB AND GUTTER PAN.
5. CHANGES IN DIRECTION OF WATERLINE PIPE GREATER THAN ONE DEGREE SHALL REQUIRE FITTINGS IN ALL INSTANCES. AXIAL DEFLECTION AT THE JOINTS SHALL NOT BE IN EXCESS OF MANUFACTURER'S RECOMMENDATION OR IN NO CASE MORE THAN ONE DEGREE.
6. WHEN IT IS NECESSARY TO DEPRESS WATER LINES AT UTILITY CROSSINGS, A MINIMUM CLEARANCE OF ONE AND ONE-HALF (1-1/2) FEET SHALL BE MAINTAINED BETWEEN OUTSIDES OF PIPE.
7. DISTANCES FOR WATER LINES ARE THE HORIZONTAL DISTANCE BETWEEN THE CENTERS OF THE FITTINGS. THEREFORE, DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND FITTING DIMENSIONS.
8. ALL WATER LINE VALVES SHALL BE SET ADJACENT TO THE TEE, EXCEPT FOR POINTS THAT FALL IN THE FLOW LINE OF A CONCRETE CROSS PAN. IN WHICH CASE, THE VALVE SHALL BE LOCATED SO THAT SURFACE DRAINAGE DOES NOT INFILTRATE THE VALVE BOX. VALVE BOXES SHALL BE SET AT AN ELEVATION IN ACCORDANCE WITH TOWN PAVING REQUIREMENTS.
9. ALL WATER MAINS SHALL BE POLYVINYL CHLORIDE (PVC) PRESSURE PIPE UNLESS SPECIFIED OTHERWISE. NOMINAL PVC PIPE SIZES 6-INCH THROUGH 12-INCH SHALL CONFORM TO ALL REQUIREMENTS OF AWWA STANDARD C-900, PRESSURE CLASS 150 (DR18). NOMINAL PVC PIPE SIZES 16-INCH THROUGH 24-INCH SHALL CONFORM TO ALL REQUIREMENTS OF AWWA STANDARD C-905, PRESSURE CLASS 165 (DR25). ALL PVC PIPES SHALL HAVE OUTSIDE DIAMETERS EQUIVALENT TO CAST IRON PIPE.
10. FIRE HYDRANT ASSEMBLY INCLUDES THE FIRE HYDRANT, SIX (6) INCH VALVE, AND SIX (6) INCH PIPE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE TOWN OF ERIE STANDARDS AND SPECIFICATIONS.
11. ALL FITTINGS SHALL BE MADE FROM DUCTILE IRON, FURNISHED WITH MECHANICAL JOINT ENDS OR INTEGRAL RESTRAINED JOINTS, AND SHALL HAVE A PRESSURE RATING OF 350 PSI.
12. POLYETHYLENE WRAPPING SHALL BE INSTALLED AROUND ALL DUCTILE IRON PIPES, FITTINGS, VALVES, FIRE HYDRANT BARRELS AND ROD AND CLAMPS. THE POLYETHYLENE SHALL HAVE A MINIMUM THICKNESS OF EIGHT (8) MILS, IN ACCORDANCE WITH AWWA STANDARD C-105.
13. ALL WATER LINE PIPE SHALL BE PROVIDED WITH A MINIMUM GAGE SIZE OF 12 SINGLE STRAND INSULATED COPPER WIRE. SPLICES IN TRACER WIRE SHALL BE CAPPED IN WATER PROOF GEL CAP TYPE CONNECTORS SUITED FOR DIRECT BURY APPLICATION (3M TYPE DBY-6 LOW VOLTAGE OR EQUAL). WIRE SHALL BE ATTACHED TO TOP OF WATER LINE WITH 2-INCH WIDE PVC TAPE @ 5-FT INTERVALS ALONG PIPE. TRACER WIRE SHALL EXTEND TO THE SURFACE AND BE COILED IN A LOCATE BOX AT THE BACKSIDE OF EITHER EACH FIRE HYDRANT OR VALVE. UNDER THE SUPERVISION OF TOWN OF ERIE ENGINEERING STAFF, TEST SHALL BE MADE BY THE CONTRACTOR @ THE COMPLETION OF CONSTRUCTION TO INSURE THAT THE TRACER WIRES CARRY A CONTINUOUS CURRENT BETWEEN ALL ACCESS POINTS.
14. WARNING TAPE SHALL BE INSTALLED 12" MINIMUM AND 18" MAXIMUM ABOVE WATER PIPE.
15. BEDDING MATERIAL SHALL CONFORM TO TOWN OF ERIE STANDARDS AND SPECIFICATIONS.
16. VALVES SHALL OPEN COUNTER CLOCKWISE. VALVES 12-INCH AND SMALLER SHALL BE RESILIENT SEAT GATE VALVES. LARGER VALVES SHALL BE BUTTERFLY VALVES.
17. VALVE BOXES SHALL BE RAISED TO ONE-FOURTH (1/4) INCH BELOW GRADE AFTER COMPLETION OF SURFACE PAVING OR FINAL GRADING. VALVE BOXES IN NON-PAVED AREAS SHALL HAVE A CONCRETE COLLAR AROUND THE VALVE LID IN ACCORDANCE WITH THE DETAIL.
18. ALL SERVICE LINE TAPS SHALL HAVE DOUBLE STRAP BRASS TAPPING SADDLES. (ROMAC 202B OR APPROVED EQUAL).
19. ALL RESIDENTIAL WATER TAPS SHALL BE THREE-QUARTER (3/4) INCH OR AS REQUIRED BY THE CURRENT BUILDING CODE.
20. ALL WATER SERVICE LATERALS SHALL EXTEND FIVE (5) FEET BEYOND RIGHT OF WAY OR UTILITY EASEMENTS, WHICHEVER IS GREATER. THE ENDS SHALL BE MARKED BY A BLUE PAINTED WOOD POST UNTIL CURB AND GUTTER IS IN PLACE. WHEN CURB AND GUTTER IS IN PLACE THE LATERALS SHALL BE MARKED ON THE CONCRETE CURB FACE WITH A "V" or "W".
21. CONCRETE THRUST BLOCKS AND/OR "MEGA-LUG" MECHANICAL RESTRAINTS ARE REQUIRED AT ALL MECHANICAL FITTINGS. THRUST BLOCKS MAY NOT BE REQUIRED IF PIPE RESTRAINT IS PROVIDED IN ACCORDANCE WITH RESTRAINED PIPE DETAIL.
22. NO WORK SHALL BE BACKFILLED (INCLUDING BEDDING MATERIAL ABOVE THE SPRING LINE OF THE PIPE) UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE TOWN OF ERIE ENGINEERING STAFF.
23. ONLY ONE CONNECTION TO THE EXISTING WATER DISTRIBUTION SYSTEM SHALL BE MADE UNTIL ALL HYDROSTATIC TESTING, CHLORINATION AND FLUSHING HAS BEEN COMPLETED.
24. DISINFECTION AND HYDROSTATIC TESTING SHALL BE DONE IN THE PRESENCE OF A TOWN OF ERIE ENGINEERING STAFF. CONTACT THE TOWN OF ERIE DEPARTMENT OF PUBLIC WORKS, FORTY-EIGHT (48) HOURS PRIOR TO DISINFECTING AND/OR TESTING.
25. DISINFECTION AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF HEALTH AND THE PROCEDURE SET FORTH IN AWWA C651, "STANDARD FOR DISINFECTING WATER MAINS". THE CHLORINATION OF THE WATER LINE SHALL BE PERFORMED PRIOR TO THE HYDROSTATIC TESTING. ALL VALVES, FIRE HYDRANTS AND OTHER APPURTANCES SHALL BE OPERATED WHILE PIPELINE IS FILLED WITH THE CHLORINATING AGENT TO INSURE THAT HIGH CHLORINE CONTACT IS MADE WITH ALL INTERNAL SURFACES.
26. ALL WATER LINES SHALL BE HYDROSTATIC TESTED. PRESSURE AND LEAKAGE TESTS SHALL BE CONDUCTED ACCORDING TO THE APPLICABLE SECTIONS OF AWWA C600/605 TO A MINIMUM PRESSURE OF ONE HUNDRED AND FIFTY (150) POUNDS PER SQUARE (PSI) INCH AT THE LOW POINT OF THE SECTION BEING TESTED FOR THE DURATION OF TWO (2) HOURS. THE MAXIMUM LENGTH OF LINE TO BE TESTED SHALL BE ONE THOUSAND (1,000) FEET. ALL JOINTS IN CONNECTIONS ARE TO BE WATERTIGHT WITHIN TOLERANCES ALLOWED BY THE SPECIFICATIONS IN AWWA C600/605. ANY LEAKAGE THAT IS DISCOVERED BY OBSERVATION OR TESTS SHALL BE LOCATED AND MADE WATERTIGHT BY THE CONTRACTOR. PRESSURE AND LEAKAGE TESTS SHALL NOT BE CONDUCTED UNTIL THE LINE HAS PASSED ALL REQUIRED DISINFECTION TESTS.
27. INITIAL ACCEPTANCE OF THE NEW WATER LINES ARE CONTINGENT UPON RECEIVING COPIES OF:
    A. WATER TRENCH COMPACTION TEST RESULTS
    B. HYDRO STATIC TESTING OF 100% OF THE SYSTEM
    C. HEALTH DEPARTMENT TESTS. (CHLORINE AND/OR CLEAR WATER AS REQUIRED)
28. ALL METER PITS AND CURB STOPS SHALL BE PROTECTED AT THE TIME OF INSTALLATION WITH A MINIMUM OF THREE (3) T-POSTS AND ORANGE SAFETY FENCE. THE T-POST AND SAFETY FENCE SHALL REMAIN IN PLACE AND IN GOOD CONDITION UNTIL THE LANDSCAPING IS INSTALLED.
29. ALL WATER VAULTS SHALL BE WATER TIGHT. CONTRACTOR SHALL SEAL VAULTS TO ENSURE SURFACE WATER DOES NOT INFILTRATE INTO THE VAULTS. VAULT LIDS SHALL BE PLACED TO ENSURE THAT SURFACE WATER DOES NOT FLOW INTO THE VAULTS.

GENERAL NOTES - STORM DRAIN

1. EXCEPT WHERE NOTED, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE, CLASS III AND SHALL CONFORM TO REQUIREMENTS OF ASTM C76. ALL RCP SHALL HAVE RUBBER GASKETED JOINTS AND SHALL CONFORM TO REQUIREMENTS OF ASTM C443, AND SHALL PROVIDE WATERTIGHT PERFORMANCE CHARACTERISTICS.
2. TONGUE AND GROOVE JOINTS SHALL NOT BE ALLOWED.
3. THE MINIMUM COVERAGE FOR ALL STORM DRAINAGE PIPES SHALL BE 1.5 FEET FOR CLASS III PIPE AND 1 FOOT FOR CLASS IV PIPE.
4. BEDDING MATERIAL SHALL CONFORM TO TOWN OF ERIE STANDARDS AND SPECIFICATIONS.
5. ALL MANHOLES SHALL BE CONCRETE AND CONFORM TO CDOT STANDARD M-604-20.
6. THE MINIMUM MANHOLE DIAMETER SHALL BE AS SPECIFIED BELOW: PIPE DIAMETER MANHOLE SIZE

15" TO 18"	4' DIAMETER
21" TO 42"	5' DIAMETER
48" TO 54"	6' DIAMETER
60" AND LARGER	BOX BASE MANHOLE

7. ALL STREET INLETS SHALL BE CURB OPENING TYPE R CONFORMING TO CDOT STANDARD M-604-12, EXCEPT WHERE OTHERWISE NOTED.
8. ALL INLET ACCESS COVERS SHALL HAVE THE WORDS "NO DUMPING - DRAINS TO RIVERS" AND "STORM SEWER" CAST INTO THE COVER PER TOWN OF ERIE STANDARD DETAIL.
9. ALL END SECTIONS SHALL CONFORM TO CDOT STANDARD M-603-10.
10. WHERE RIPRAP OR GROUTED BOULDERS ARE CALLED FOR ON THE PLANS FOR EROSION CONTROL, IT SHALL CONFORM TO THE URBAN STORM DRAINAGE CRITERIA MANUAL SPECIFICATIONS (LATEST REVISION).

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REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAI
CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME: 31300101_Erie_CVR.dwg

NOTES 2

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SHEET: C1.2

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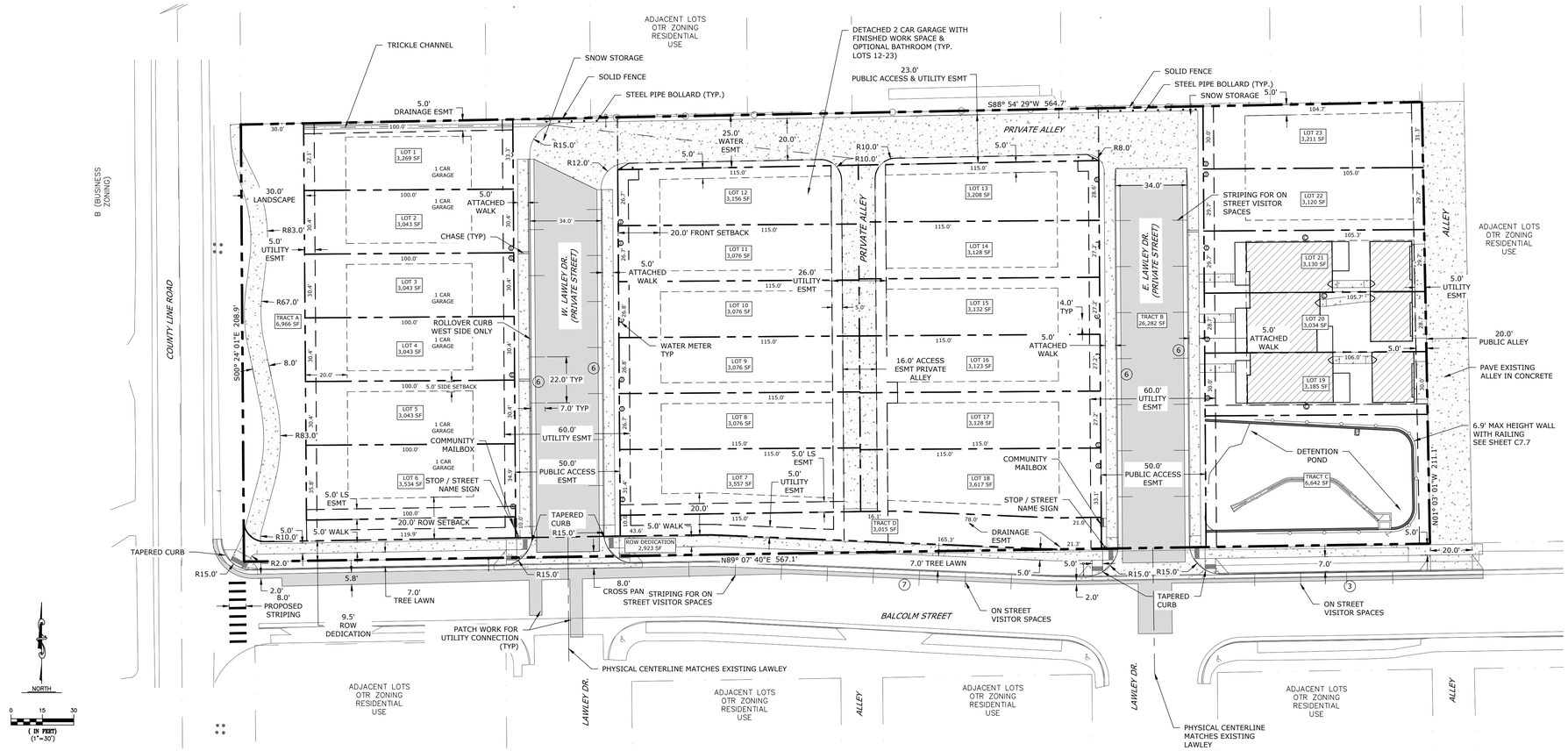

SITE PLAN LEGEND

PROPOSED		EXISTING
	PROPERTY LINE	
	EASEMENT	
	LOT LINE	
	BUILDING ENVELOPE	
	CONCRETE	
	ASPHALT	
	BUILDING	
	FENCE	
	SIGNS	
	TRUNCATED DOMES	
WM	WATER METER	

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CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME:31300101_Erie_SP.dwg
DATE: JUNE 8, 2021
SCALE: 1"=30'

SITE PLAN

SHEET: C2.0

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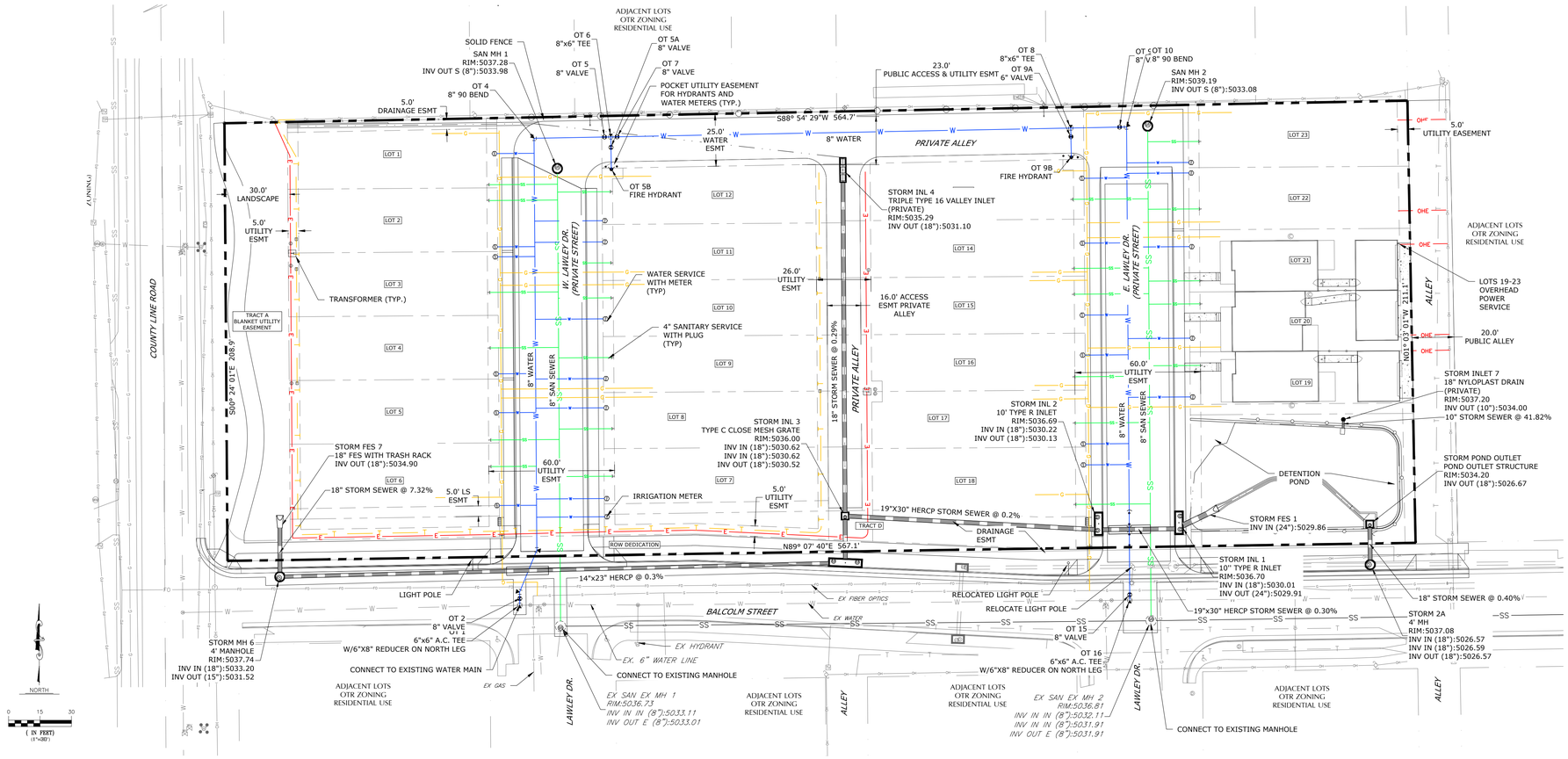

UTILITY PLAN LEGEND

PROPOSED		EXISTING
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	EASEMENT	
	LOT LINE	
G	GAS LINE	G
W	WATER LINE	W
W	WATER SERVICE	
E	ELECTRIC	
OHE	OVERHEAD ELECTRIC	OH
	FIBER OPTICS	FO
SS	SANITARY SEWER	SS
SS	SANITARY SERVICE	
	SANITARY MANHOLE	
	STORM SEWER	
	STORM INLET	
	STORM MANHOLE	
T	TELE LINE	T
WM	WATER METER	

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MASTER
UTILITY PLAN

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SHEET:
C4.0

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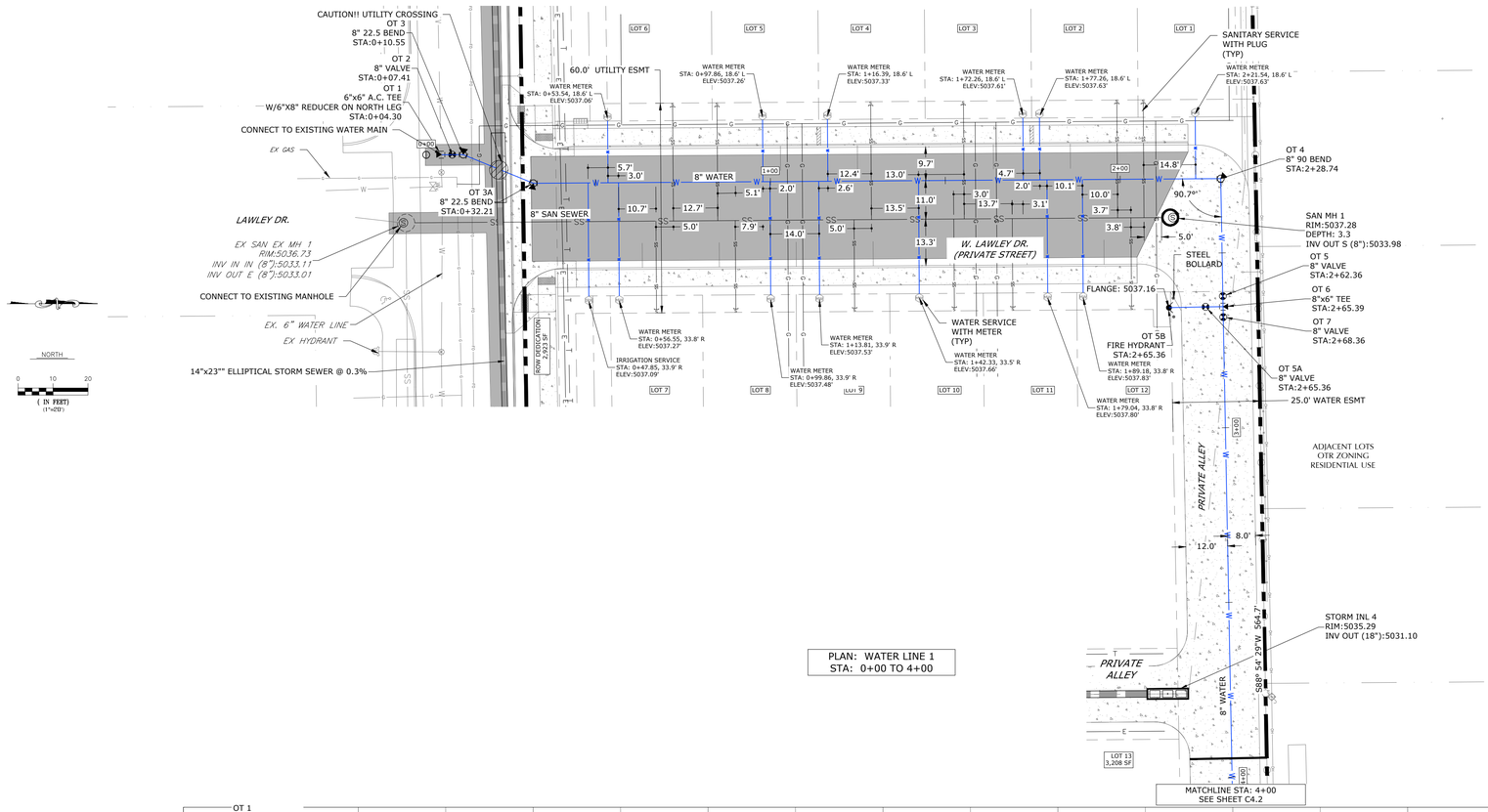

PLAN: WATER LINE 1
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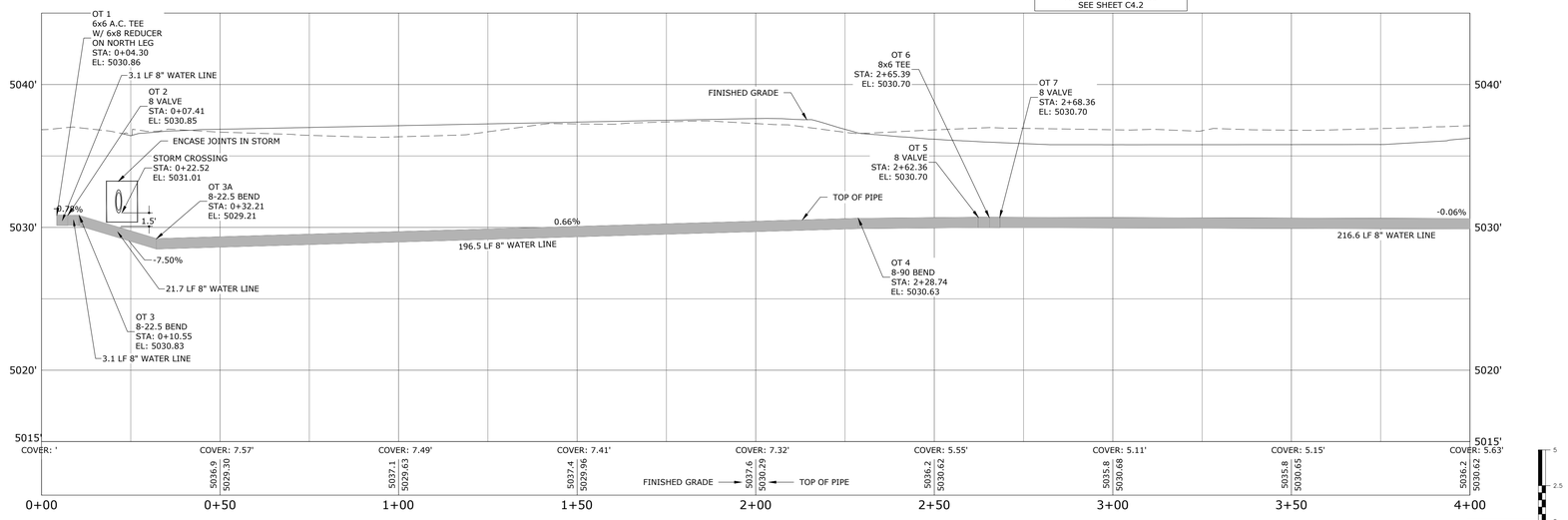

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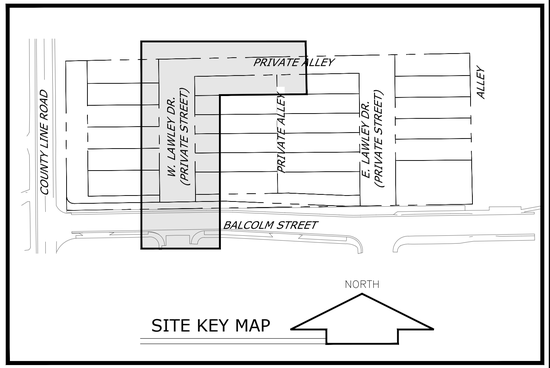

SITE KEY MAP

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JOB NO.: 31300101
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WATER LINE PLAN & PROFILE 1

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SHEET: C4.1

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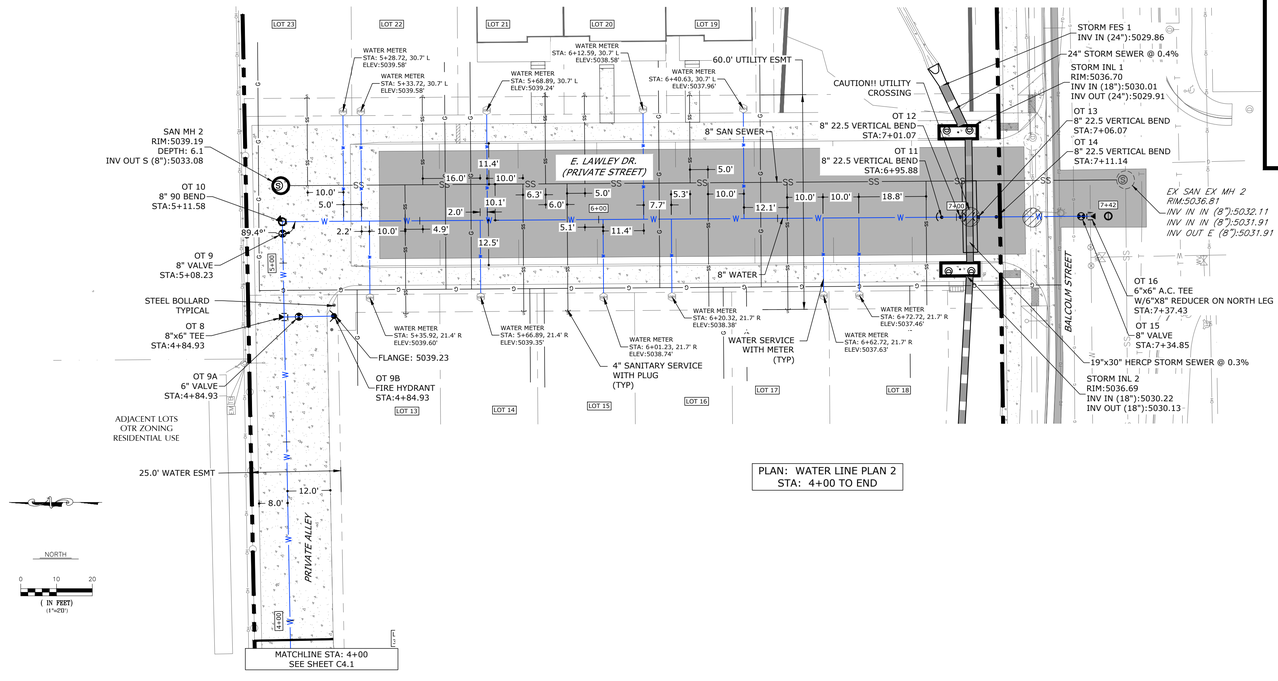

PLAN: WATER LINE PLAN 2
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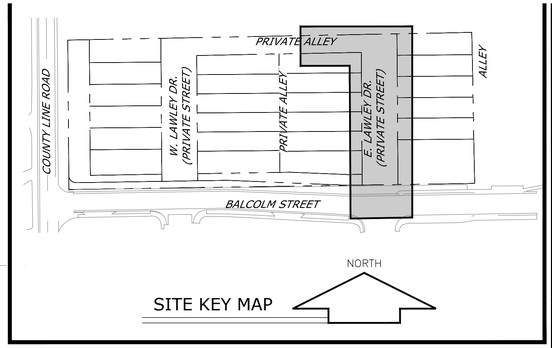

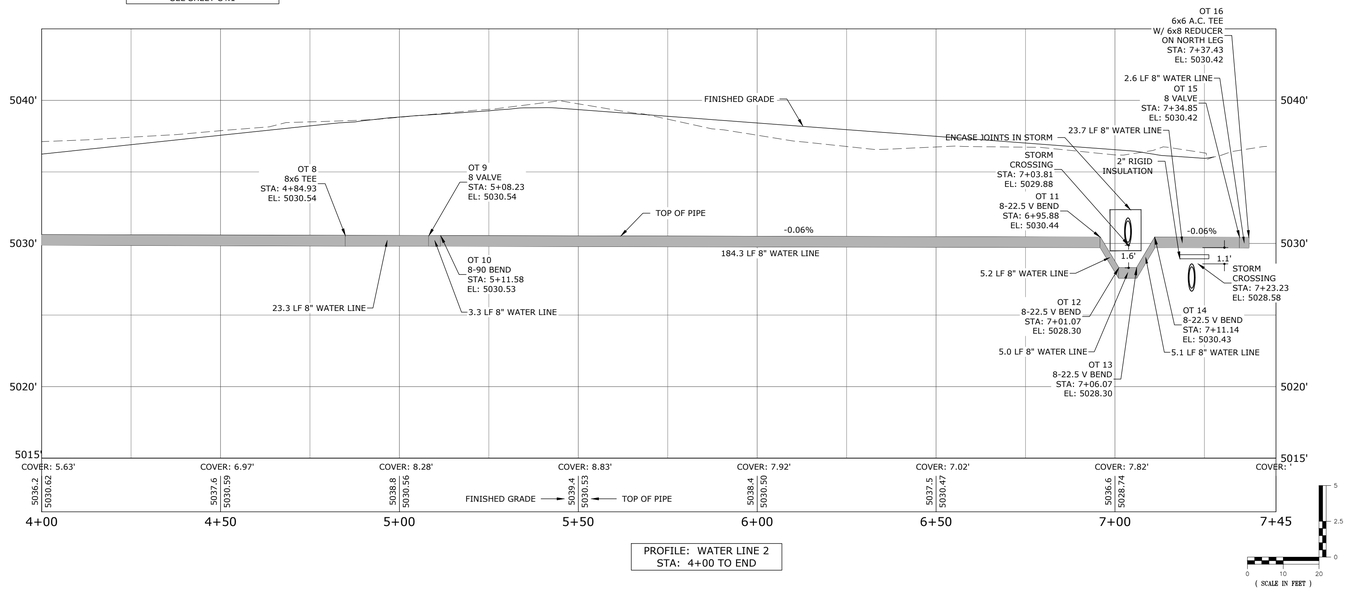

PROFILE: WATER LINE 2
STA: 4+00 TO END

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WATER LINE PLAN & PROFILE 2

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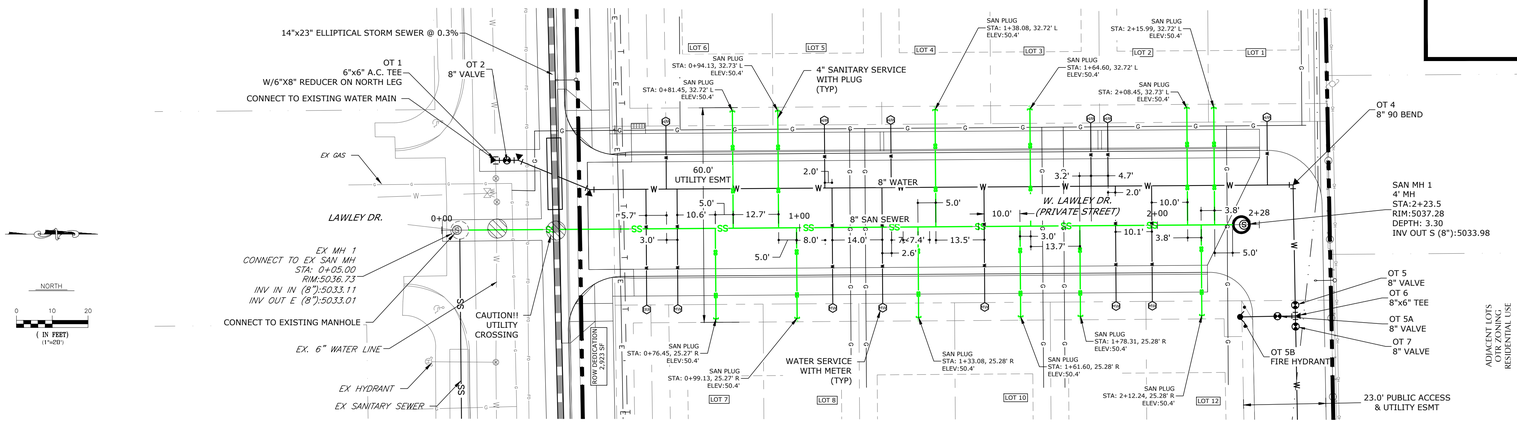

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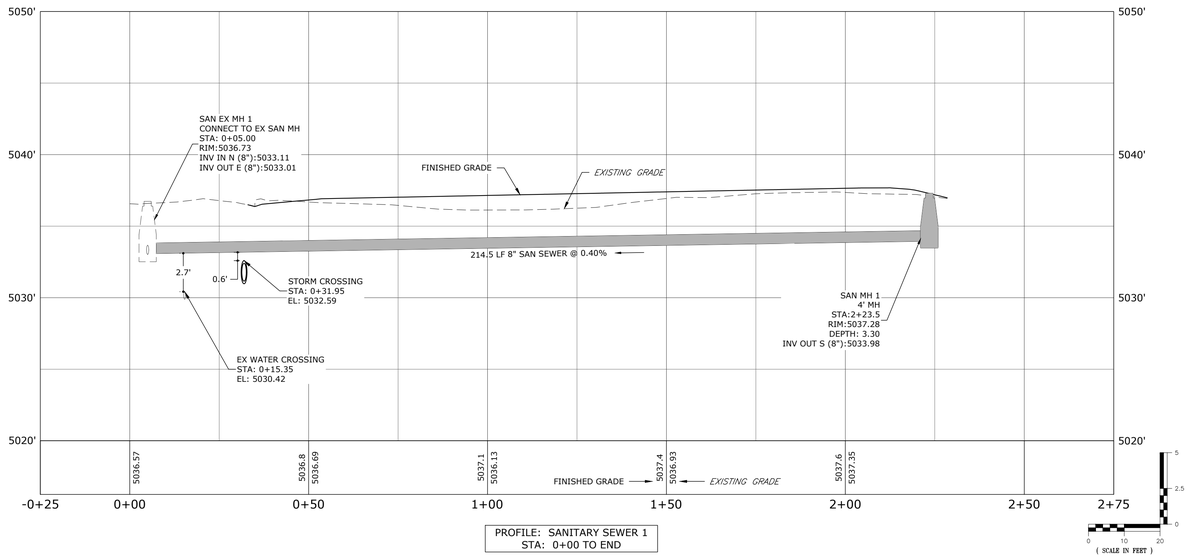

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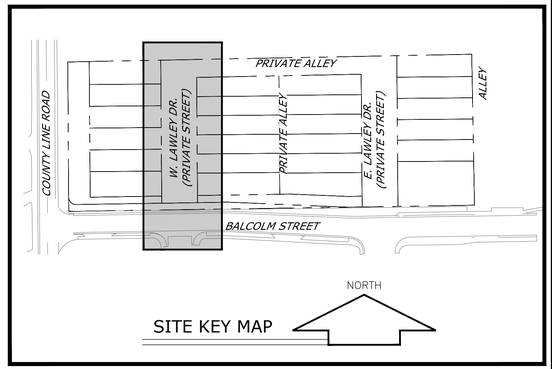

SITE KEY MAP

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SANITARY SEWER PLAN & PROFILE 1

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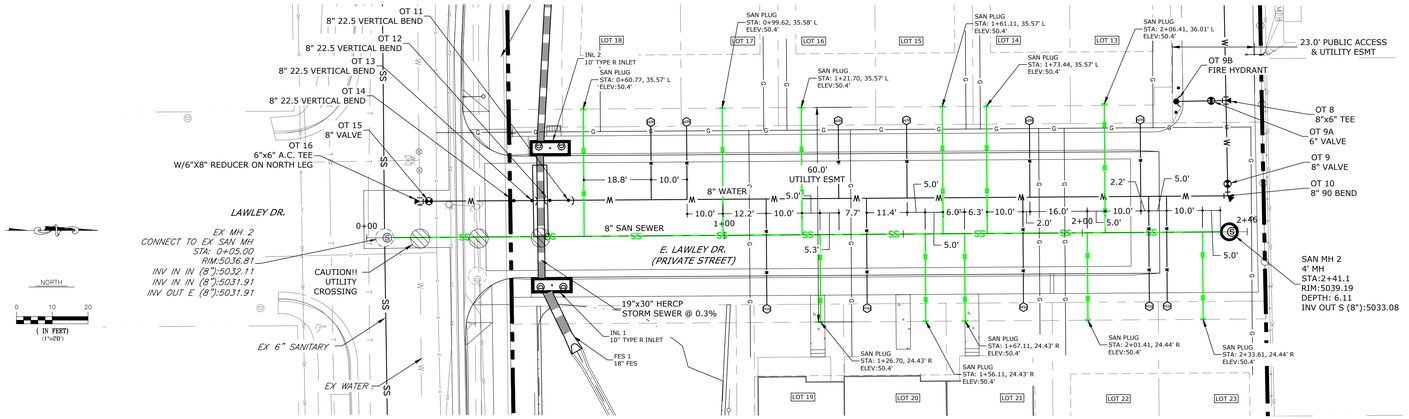

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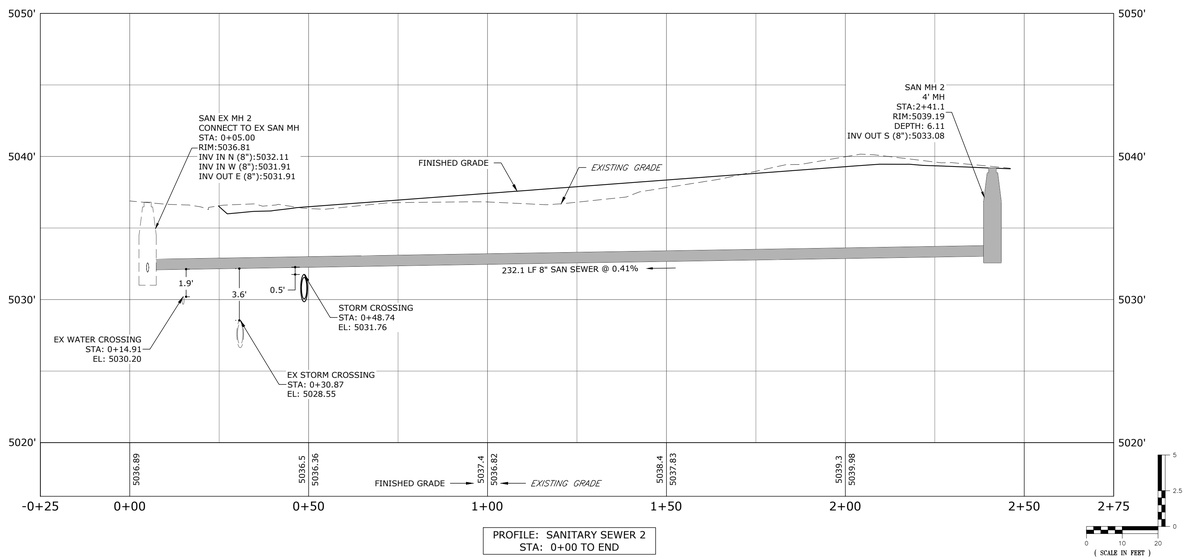

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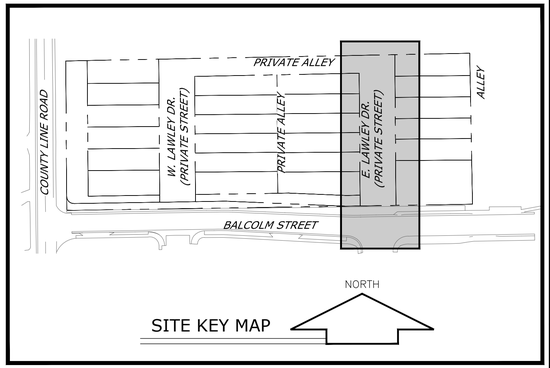

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SANITARY SEWER
PLAN & PROFILE 2

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SHEET:
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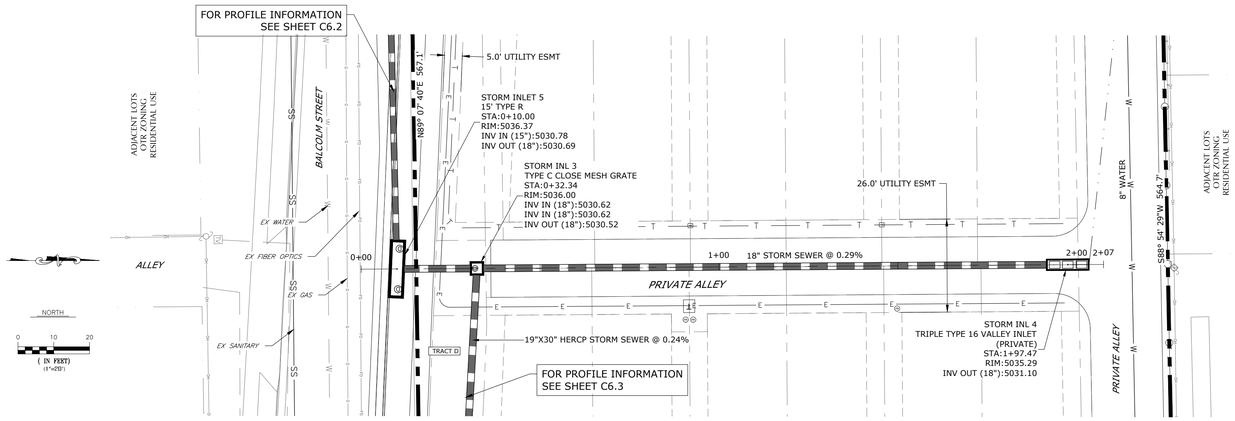

PLAN: STORM SEWER 1
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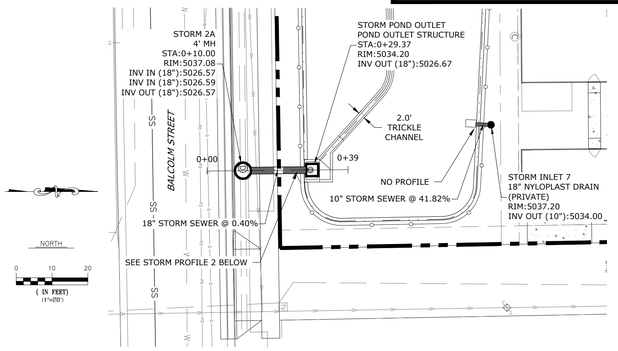
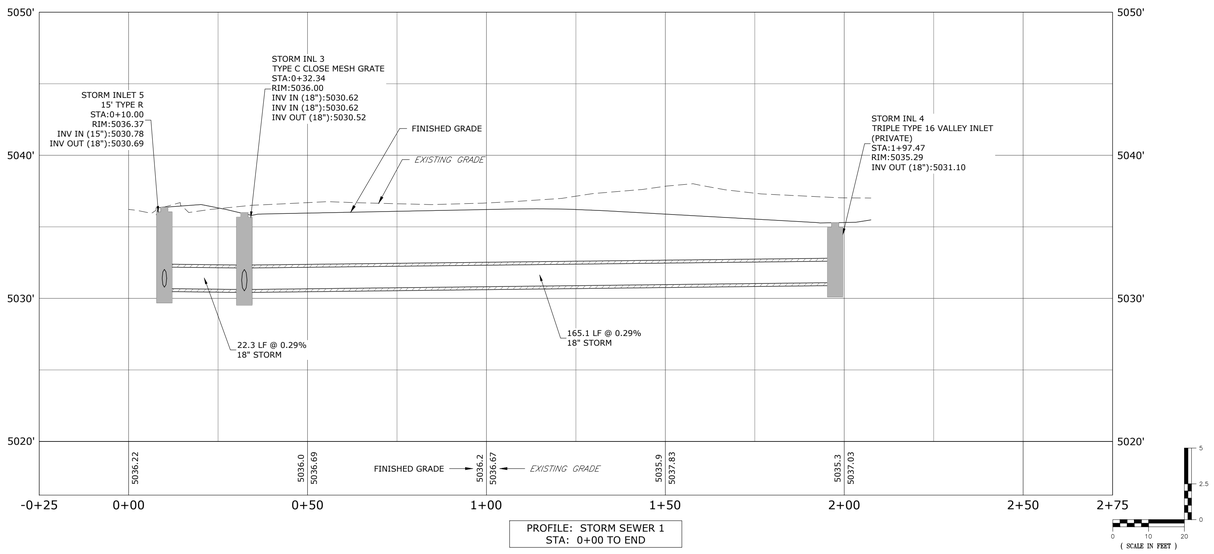
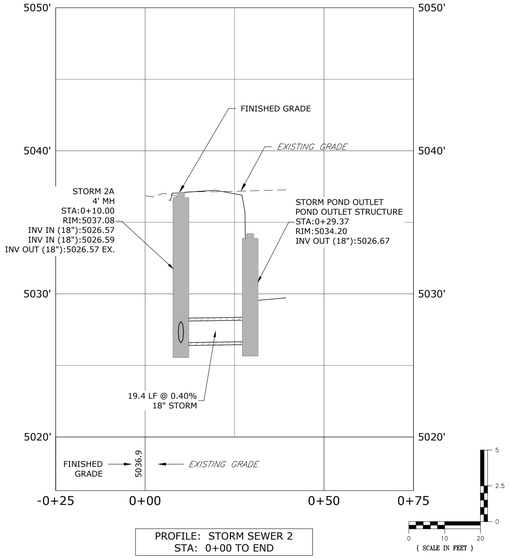


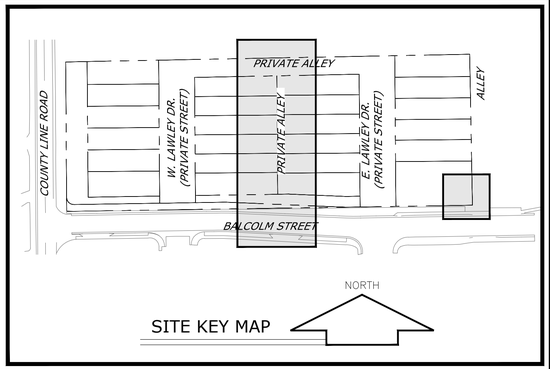
PLAN: STORM SEWER 2
STA: 0+00 TO END



PROFILE: STORM SEWER 1
STA: 0+00 TO END



PROFILE: STORM SEWER 2
STA: 0+00 TO END



SITE KEY MAP

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

CIVIL RESOURCES
8308 COLORADO BLVD
SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB	DATE: JUNE 8, 2021
DRAWN BY: CAI	SCALE: H: 1"=20'
CHECKED BY: JAB	V: 1"=5'
JOB NO.: 31300101	
DWG NAME: 31300101_Erie_STORMPP2.dwg	

STORM SEWER
PLAN & PROFILE
1

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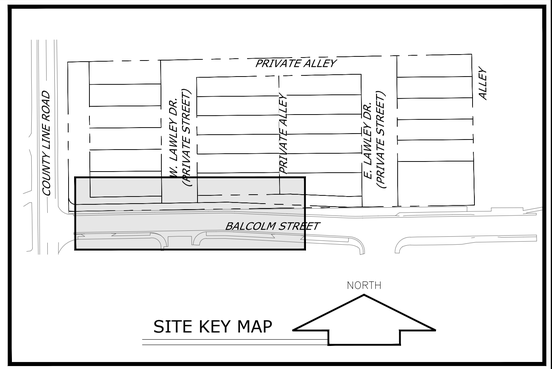
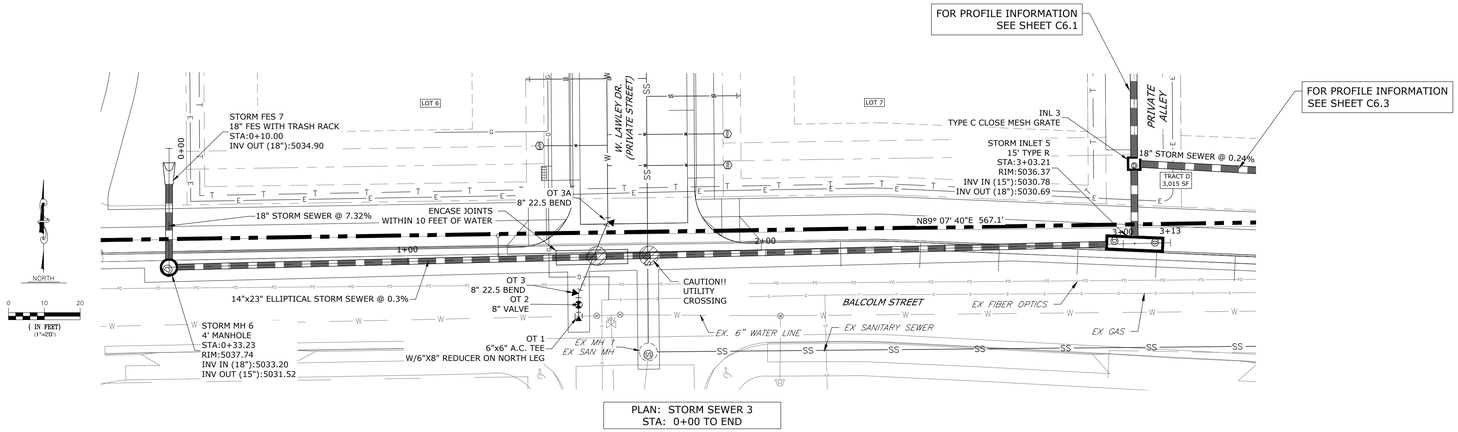
SHEET:
C6.1

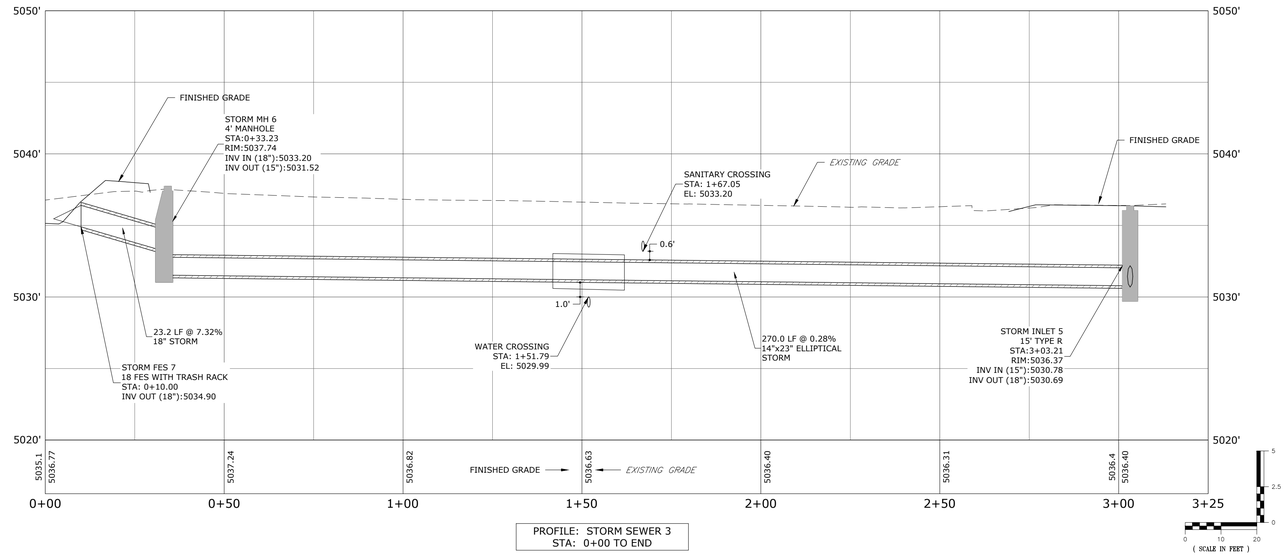
J:\Diverge Homes - 31301\101 01 Erie Old Town\Drawings\SHEET\SITE PLAN SET\31300101_Erie_STORMPP2.dwg



SITE KEY MAP



PLAN: STORM SEWER 3
STA: 0+00 TO END



PROFILE: STORM SEWER 3
STA: 0+00 TO END

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STORM SEWER
PLAN & PROFILE
2

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SHEET:
C6.2

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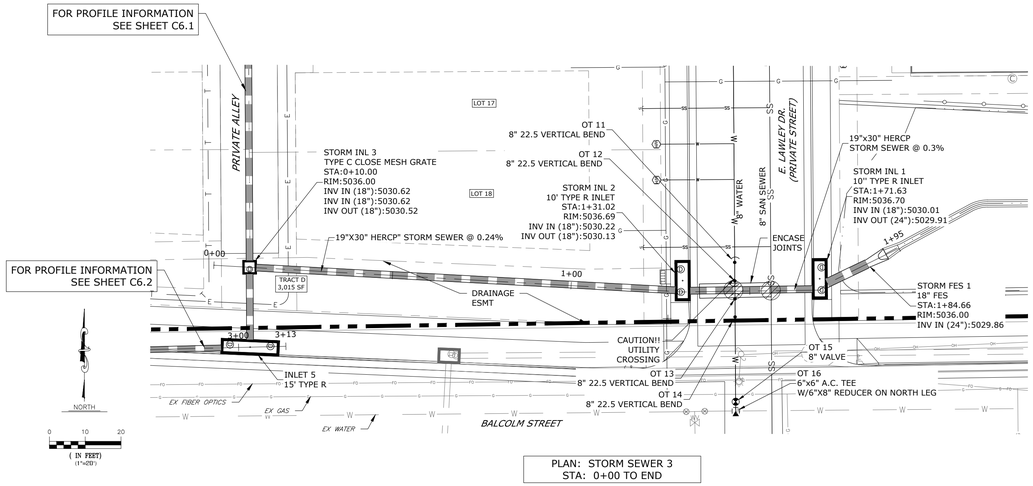
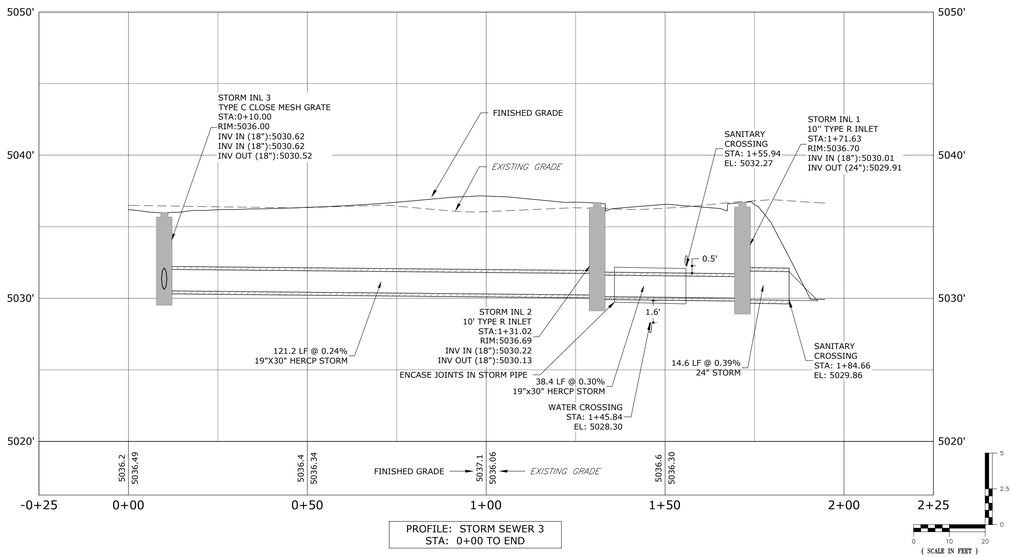
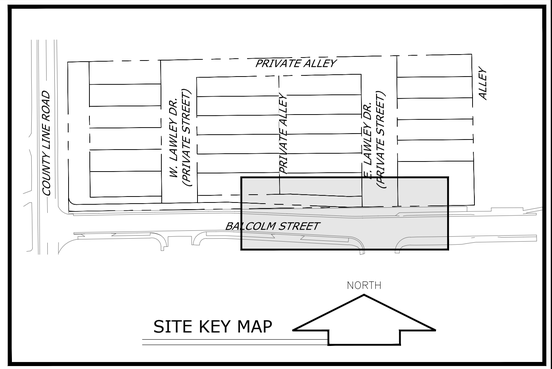


PLAN: STORM SEWER 3
STA: 0+00 TO END



PROFILE: STORM SEWER 3
STA: 0+00 TO END



SITE KEY MAP

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
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STORM SEWER
PLAN & PROFILE
3

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SHEET:
C6.3

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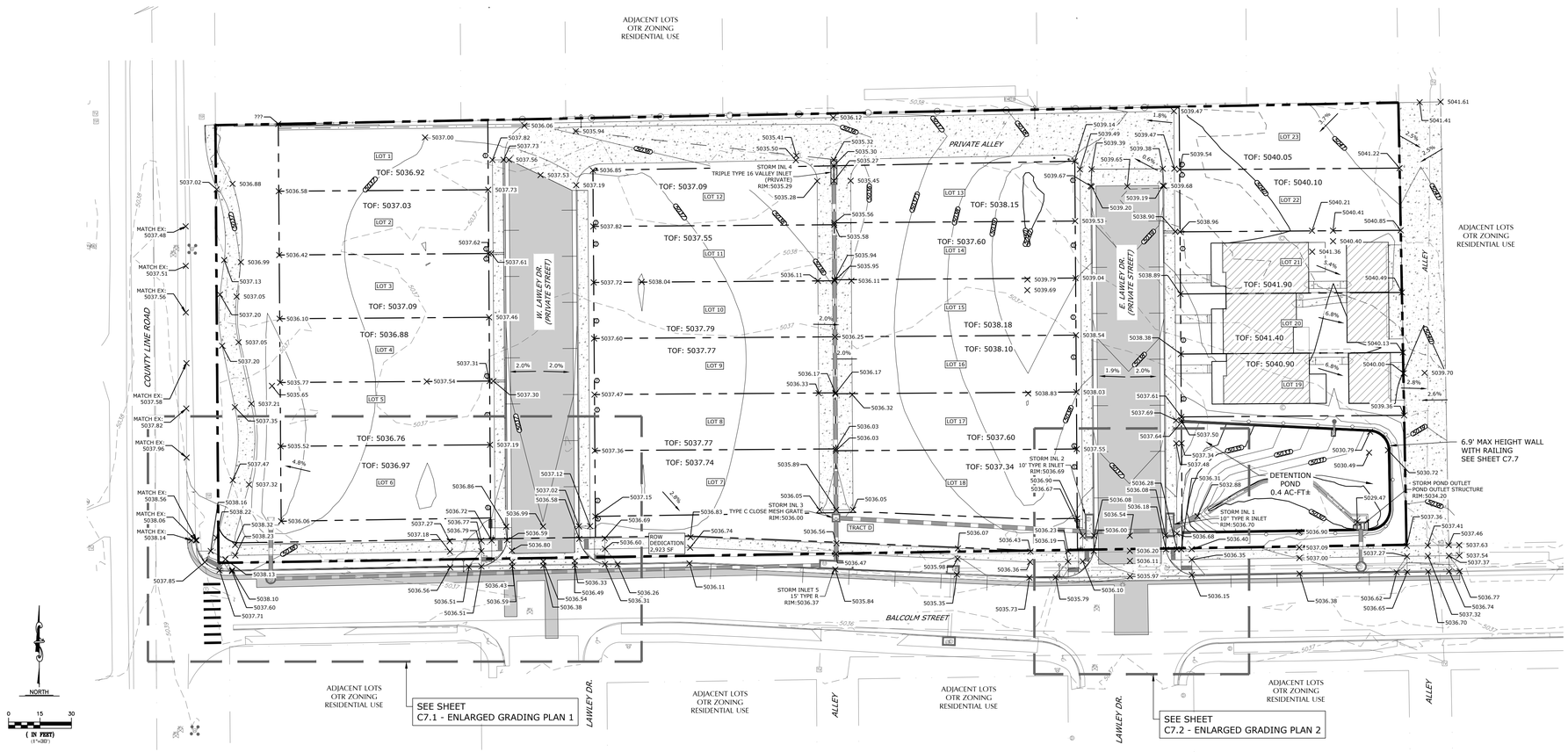

GRADING PLAN LEGEND	
PROPOSED	**EXISTING**
	PROPERTY LINE
	LOT LINE
5740	MAJOR CONTOUR — 5740
5736	MINOR CONTOUR
XXXX.XX	ELEVATION
	STORM SEWER
	STORM INLET
	STORM MANHOLE

DIVERGE

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CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME: 31300101_Erie_GP.dwg

OVERALL GRADING PLAN

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SHEET:
C7.0

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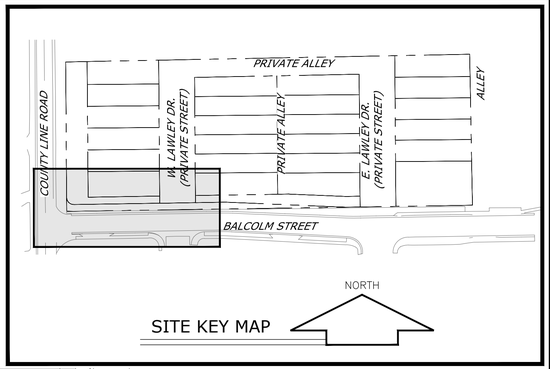
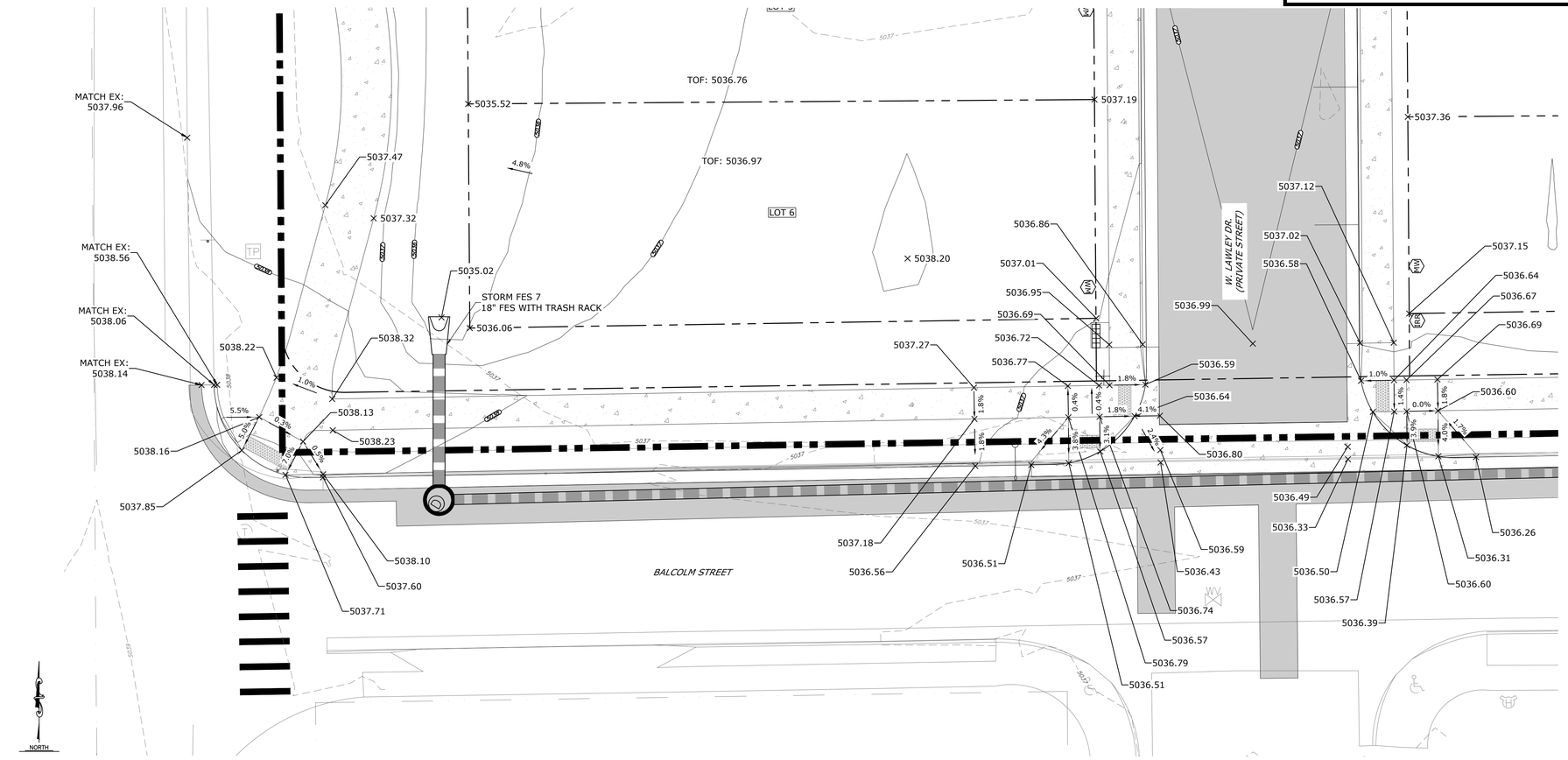


SITE KEY MAP



NORTH

0 5 10

(IN FEET)
1" = 10'

GRADING PLAN LEGEND

PROPOSED		EXISTING
	PROPERTY LINE	
	LOT LINE	
5740	MAJOR CONTOUR	5740
5736	MINOR CONTOUR	
XXXX.XX	ELEVATION	
	STORM SEWER	
	STORM INLET	
	STORM MANHOLE	

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ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAL
CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME:31300101_Erie_PartGP.dwg

ENLARGED GRADING PLAN 1

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SHEET: C7.1

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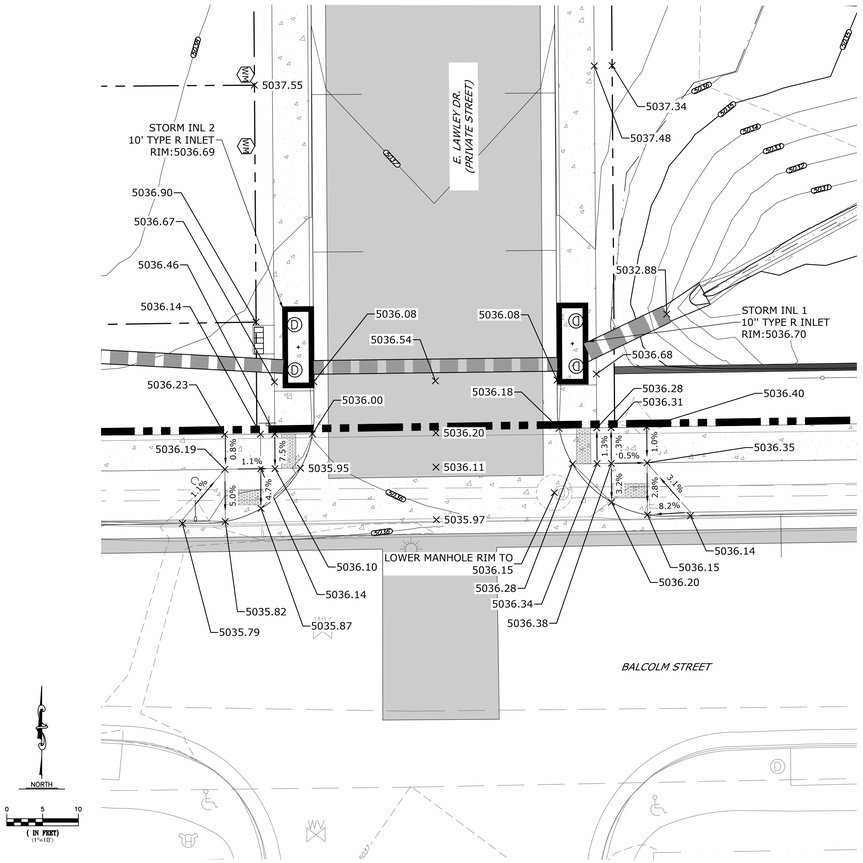

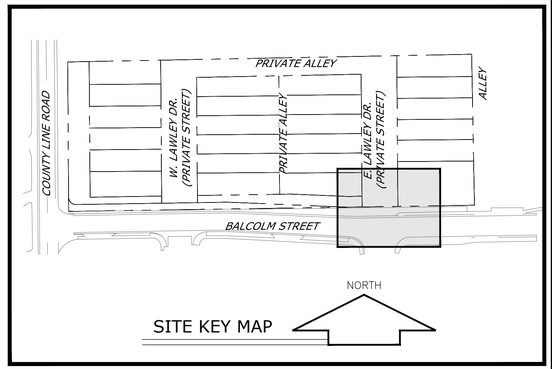

GRADING PLAN LEGEND

PROPOSED		EXISTING
	PROPERTY LINE	
	LOT LINE	
5740	MAJOR CONTOUR	5740
5736	MINOR CONTOUR	
X XXXX.XX	ELEVATION	
	STORM SEWER	
	STORM INLET	
D	STORM MANHOLE	

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DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

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CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME: 31300101_Erie_PartGP.dwg

ENLARGED
GRADING PLAN
2

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SHEET: C7.2

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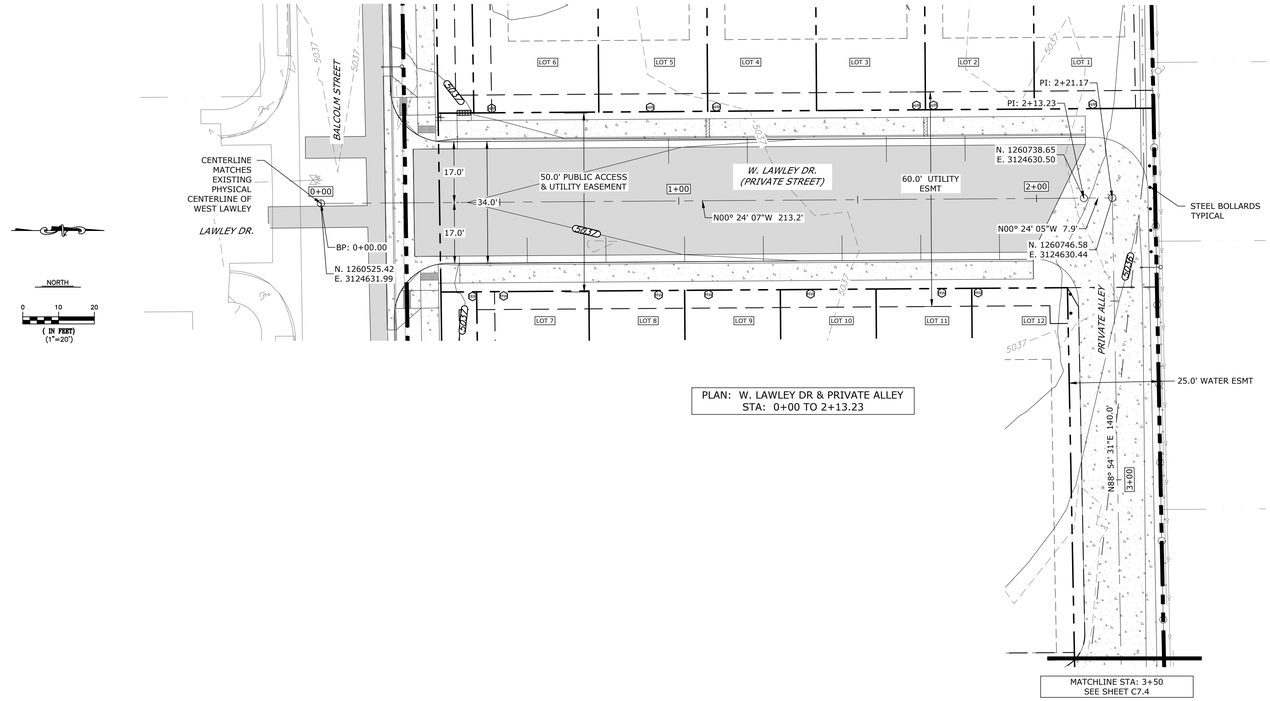
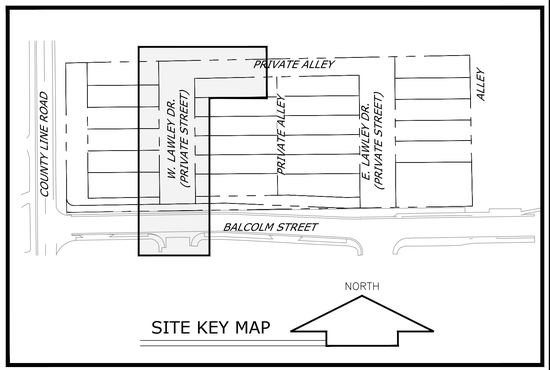
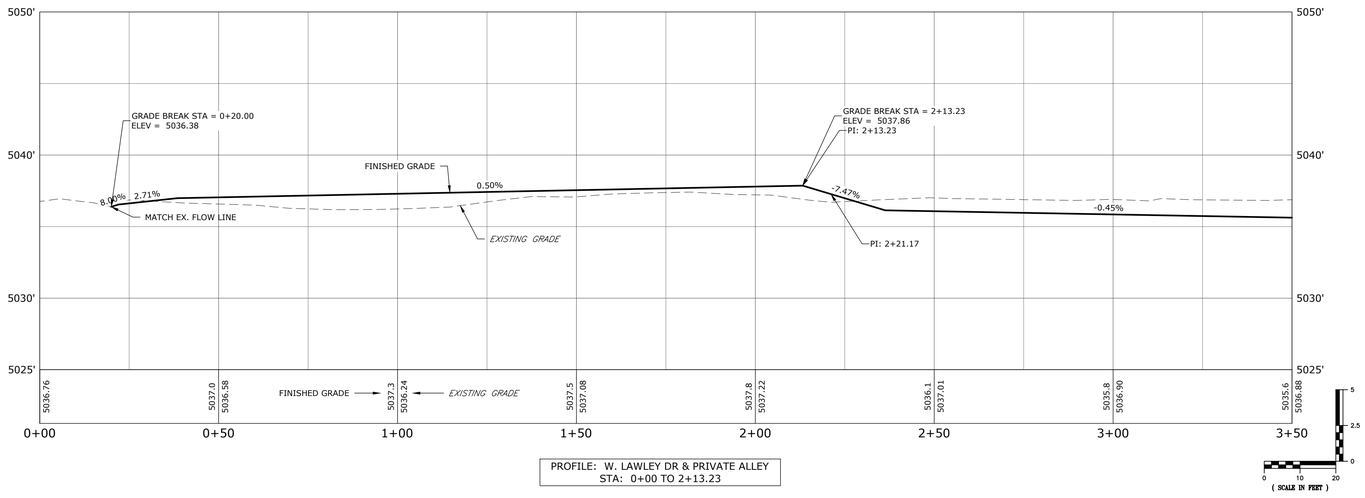


PLAN: W. LAWLEY DR & PRIVATE ALLEY
STA: 0+00 TO 2+13.23

MATCHLINE STA: 3+50
SEE SHEET C7.4





PROFILE: W. LAWLEY DR & PRIVATE ALLEY
STA: 0+00 TO 2+13.23

DIVERGE
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LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

CIVIL RESOURCES
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SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

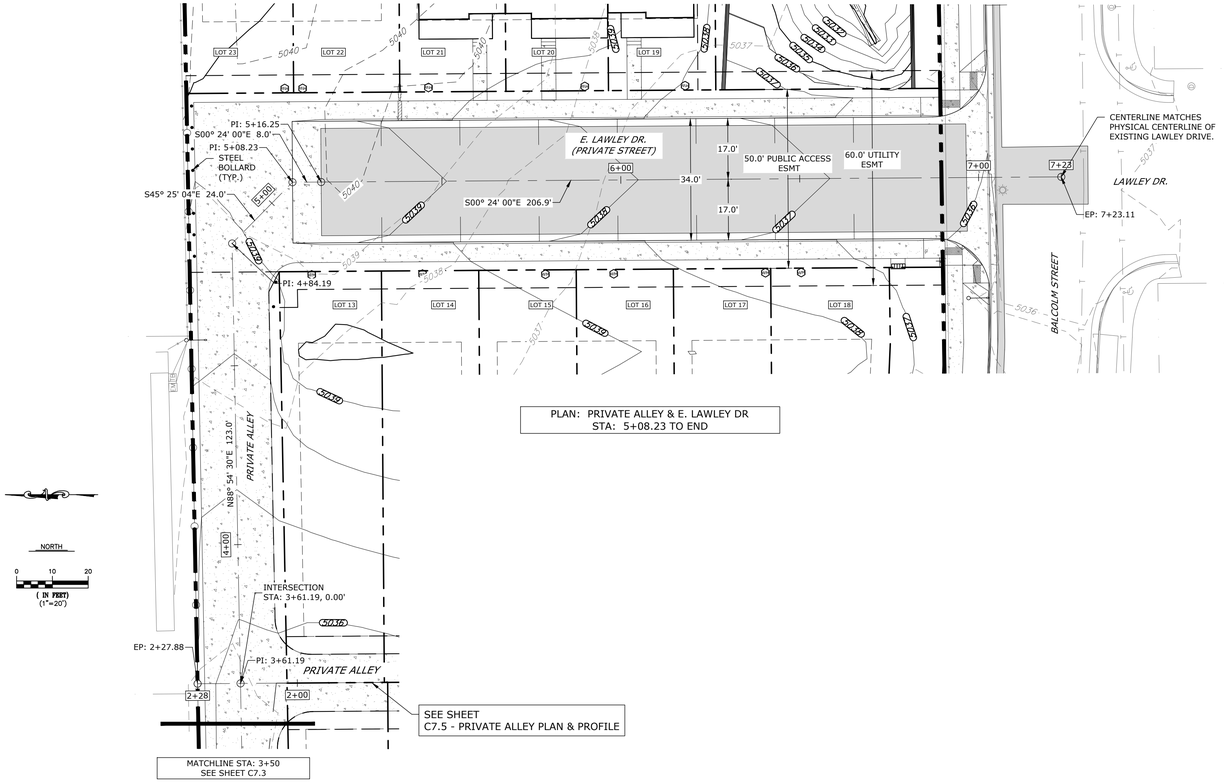
NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAI
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_STREETPP.dwg
DATE: JUNE 8, 2021
SCALE: H:1"=20'
V:1"=5'

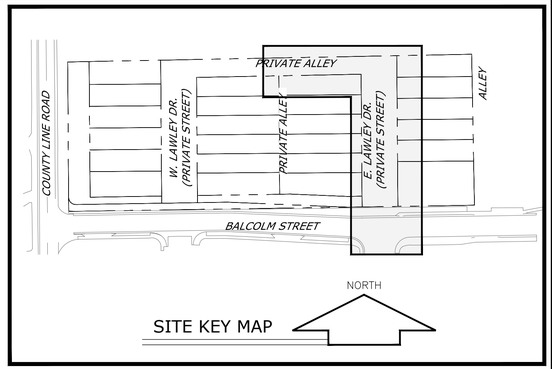
W. LAWLEY DR
PLAN & PROFILE

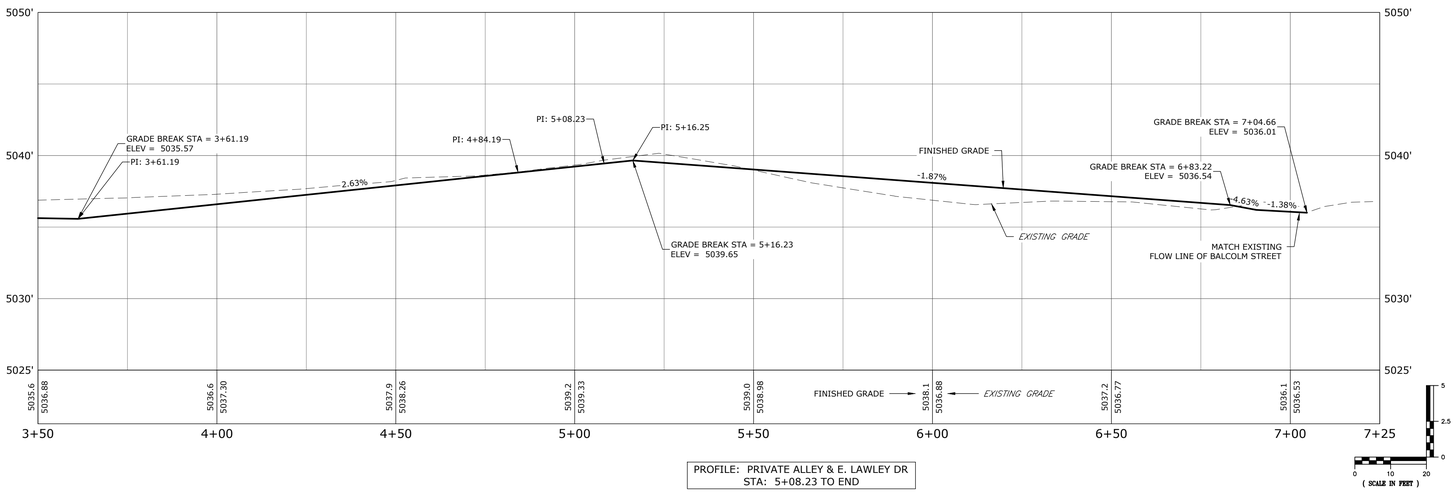
SHEET:
C7.3

811
KNOW WHAT'S BELOW
CALL BEFORE YOU DIG



PLAN: PRIVATE ALLEY & E. LAWLEY DR
STA: 5+08.23 TO END





PROFILE: PRIVATE ALLEY & E. LAWLEY DR
STA: 5+08.23 TO END

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DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS		
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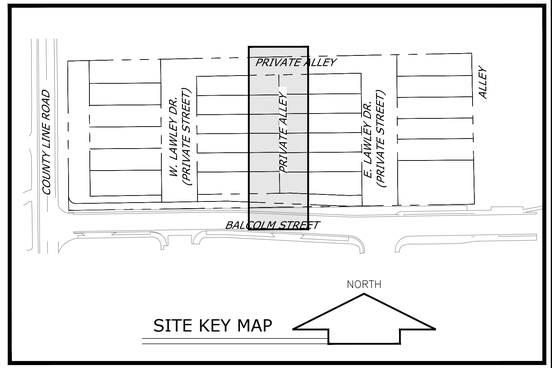
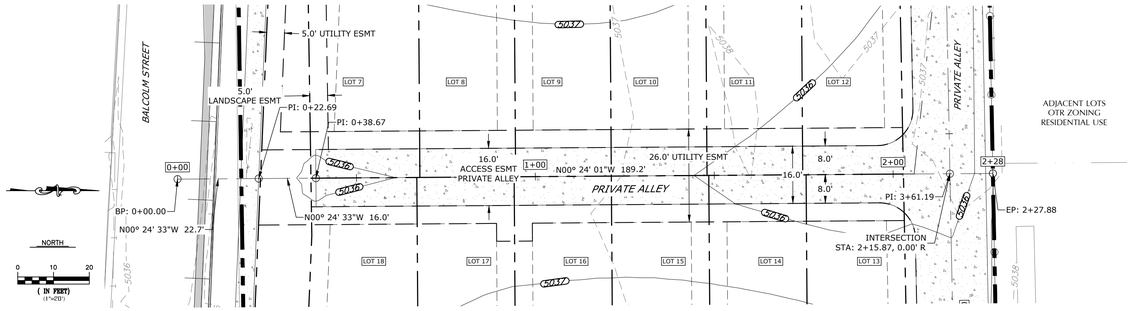
JOB NO.: 31300101
DWG NAME: 31300101_Erie_STREETPP.dwg
DATE: JUNE 8, 2021
SCALE: H:1"=20'
V:1"=5'

E. LAWLEY DR
PLAN &
PROFILE

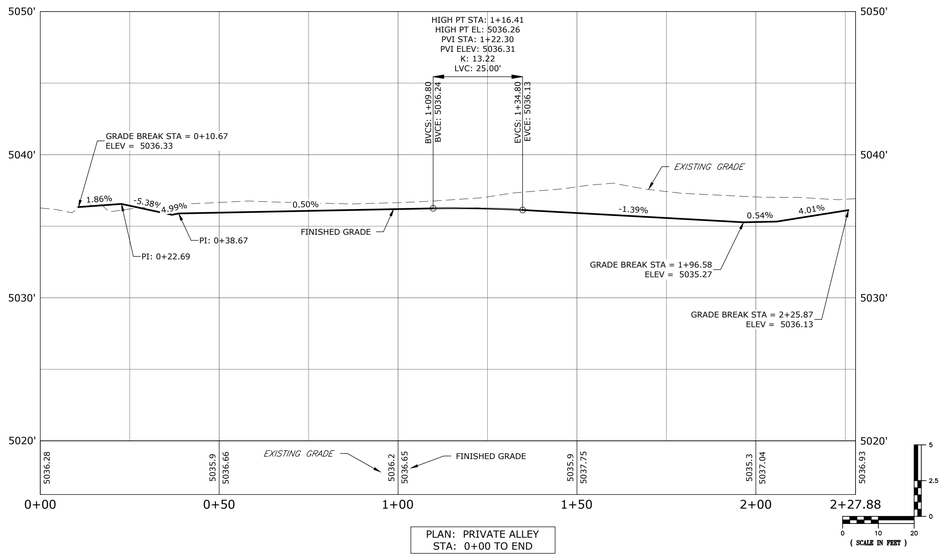
SHEET:
C7.4



SITE KEY MAP



PLAN: PRIVATE ALLEY
STA: 0+00 TO END



PLAN: PRIVATE ALLEY
STA: 0+00 TO END

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V:1"=5'
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DWG NAME: 31300101_Erie_ALLEYPP.dwg

PRIVATE ALLEY PLAN & PROFILE

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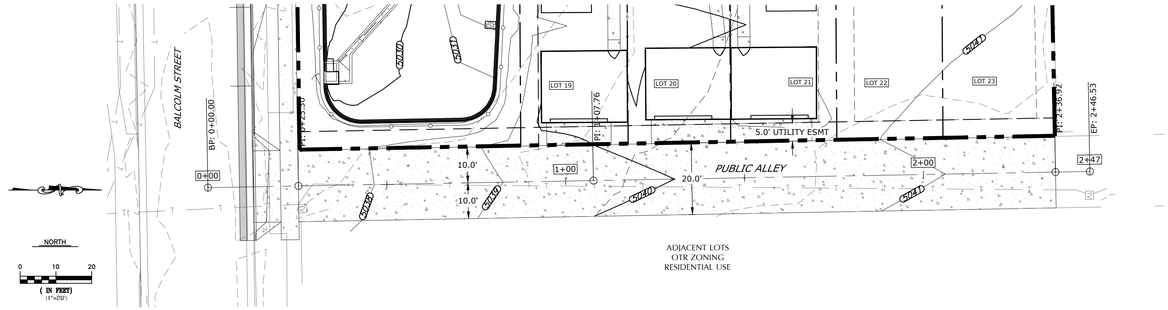
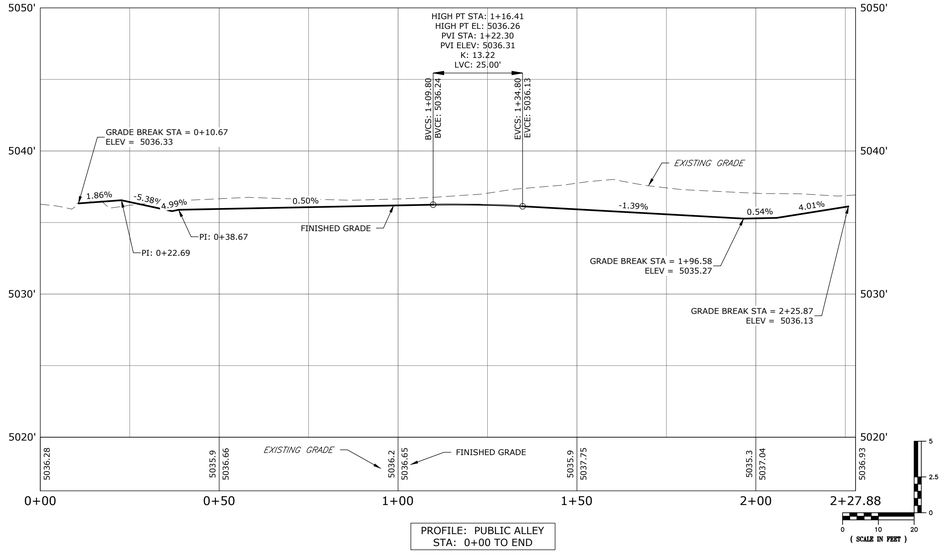
SHEET: C7.5

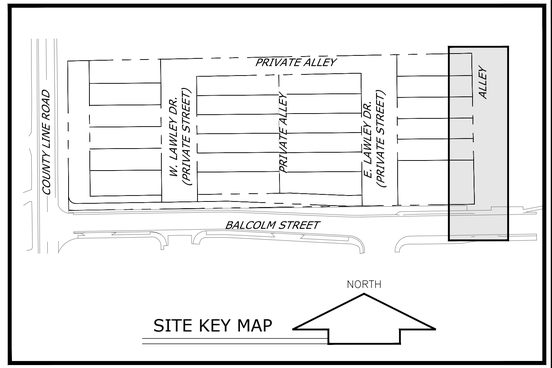
I:\Diverge Homes - 31301\100 Erie Old Town\Drawings\SHEET\SITE PLAN SET\31300101_Erie_ALLEYPP.dwg



PLAN: PUBLIC ALLEY
STA: 0+00 TO END



PROFILE: PUBLIC ALLEY
STA: 0+00 TO END



SITE KEY MAP

DIVERGE
400 E. SIMPSON, STE120
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DIVERGE
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V:1"=5'
JOB NO.: 31300101
DWG NAME: 31300101_Erie_ALLEYPP.dwg

PUBLIC ALLEY
PLAN &
PROFILE

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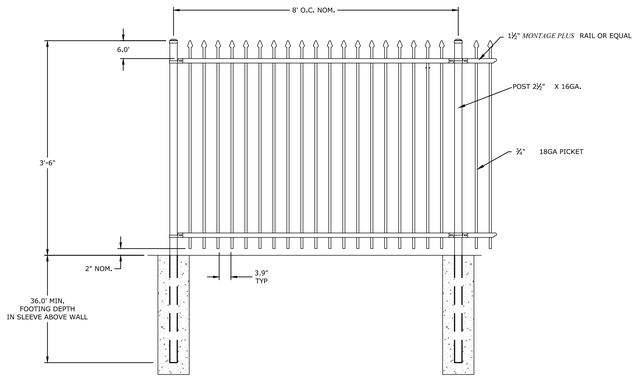
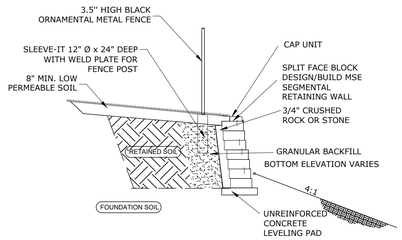
SHEET: C7.6

I:\Diverge Homes - 31\31300101 Erie Old Town\Drawings\SHEET\SHEETS PLAN SET\31300101_Erie_ALLEYPP.dwg



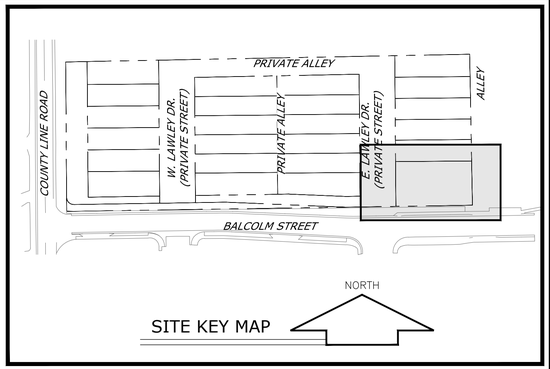
TYPICAL ORNAMENTAL METAL FENCE OR EQUAL

NOT TO SCALE

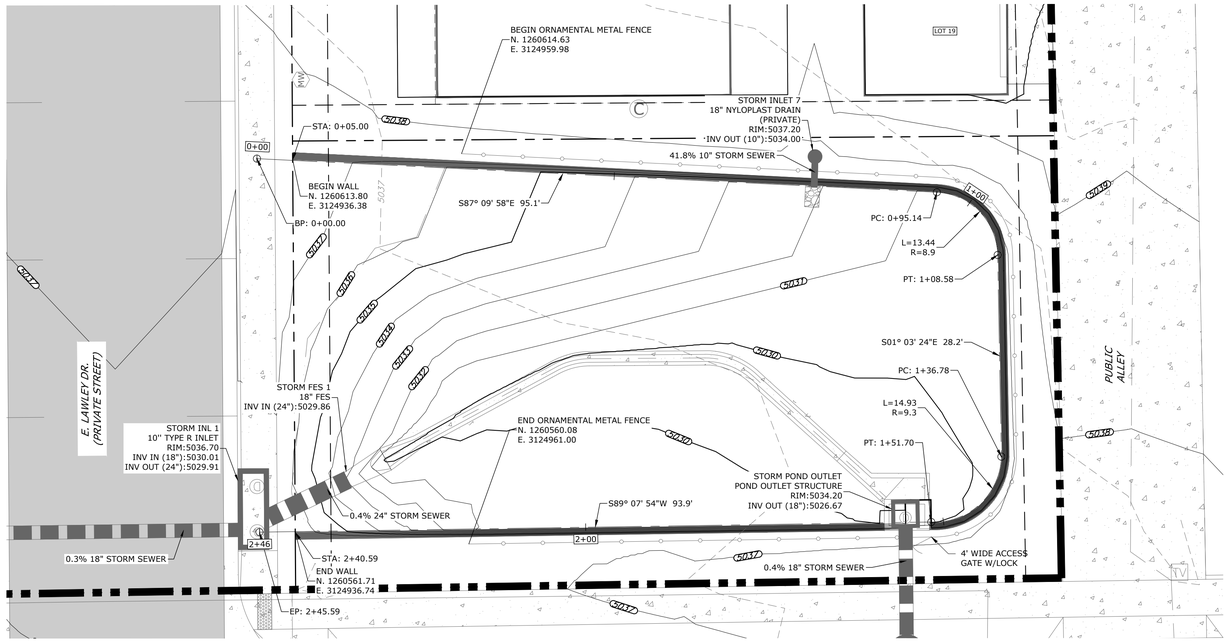


TYPICAL MODULAR WALL SECTION

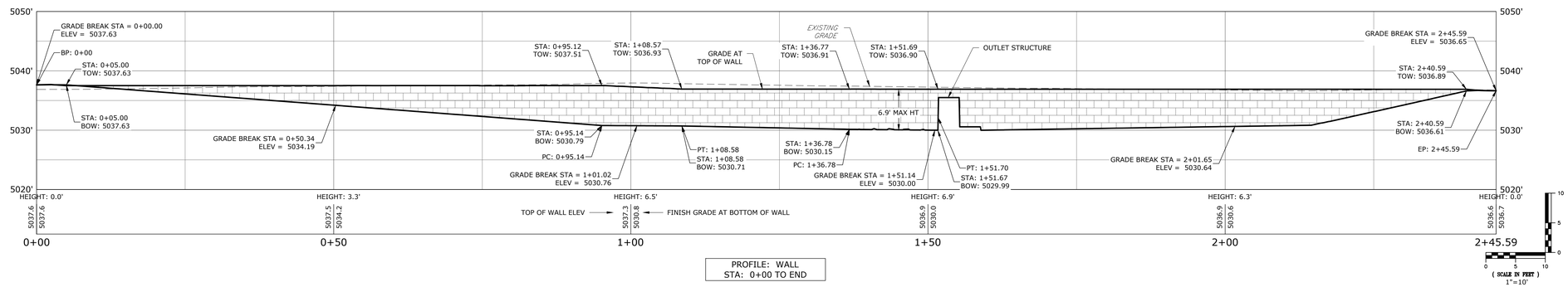
NOT TO SCALE



SITE KEY MAP



PLAN: WALL
STA: 0+00 TO END



PROFILE: WALL
STA: 0+00 TO END

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DESIGNED BY: JAB
DRAWN BY: CAI
CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE: H:1"=10'
V:1"=10'
JOB NO.: 31300101
DWG NAME:31300101_Erie_WALLPP.dwg

WALL
PLAN &
PROFILE

SHEET:
C7.7

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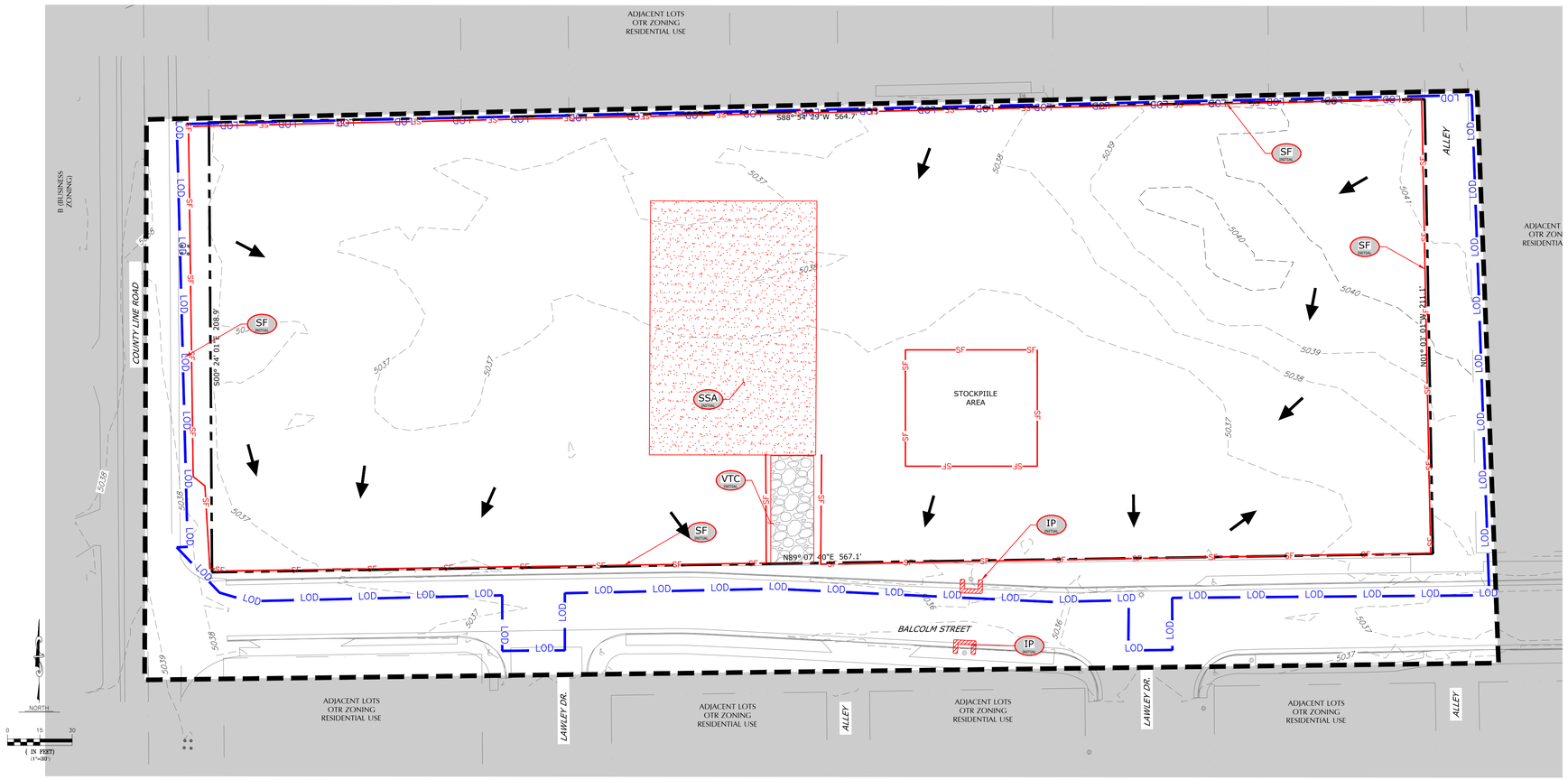
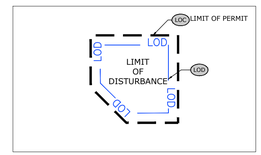


BMP LEGEND

CD	CHECK DAM
CB	COMPOST BLANKET
CFB	COMPOST FILTER BERM
CWA	CONCRETE WASHOUT AREA
CF	CONSTRUCTION FENCE
CM	CONSTRUCTION MARKER
DW	DEWATERING
DD	DIVERSION DITCH
ECB	EROSION CONTROL BLANKET
IP	INLET PROTECTION
RCD	REINFORCED CHECK DAM
RRB	REINFORCED ROCK BERM
RRC	RRB FOR CULVERT PROTECTION
SB	SEDIMENT BASIN
SCL	SEDIMENT CONTROL LOG
ST	SEDIMENT TRAP
SM	SEEDING AND MULCHING
SF	SILT FENCE
SSA	STABILIZED STAGING AREA
SR	SURFACE ROUGHENING
TSD	TEMPORARY SLOPE DRAIN
TSC	TEMPORARY STREAM CROSSING
TER	TERRACING
VTC	VEHICLE TRACKING CONTROL
WW	VTC WITH WHEEL WASH
LOC	LIMITS OF CONSTRUCTION
LOD	LIMITS OF DISTURBANCE
TBR	TO BE REMOVED



PROPERTY LINE

EX MAJOR CONTOURS 5740

EX MINOR CONTOURS

DIRECTION OF FLOW

NOTES:

1. FOR EROSION CONTROL NOTES SEE SHEET C1.1.
2. FOR EROSION CONTROL DETAILS SEE SHEETS C9.8 THROUGH C9.10.
3. PERMIT AREA: 3.8 ACRES
4. DISTURBED AREA: 3.2 ACRES
5. REFER TO FINAL DRAINAGE REPORT FOR ERIE JUNCTION FOR DRAINAGE AND SOILS INFORMATION.
6. THERE IS NO EXISTING VEGETATION WITHIN THE LIMIT OF DISTURBANCE TO BE PROTECTED.

811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

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FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

stewart ARCHITECTURE
1132 JEFFERSON AVENUE
LOUISVILLE, CO 80027
303.665.6668

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

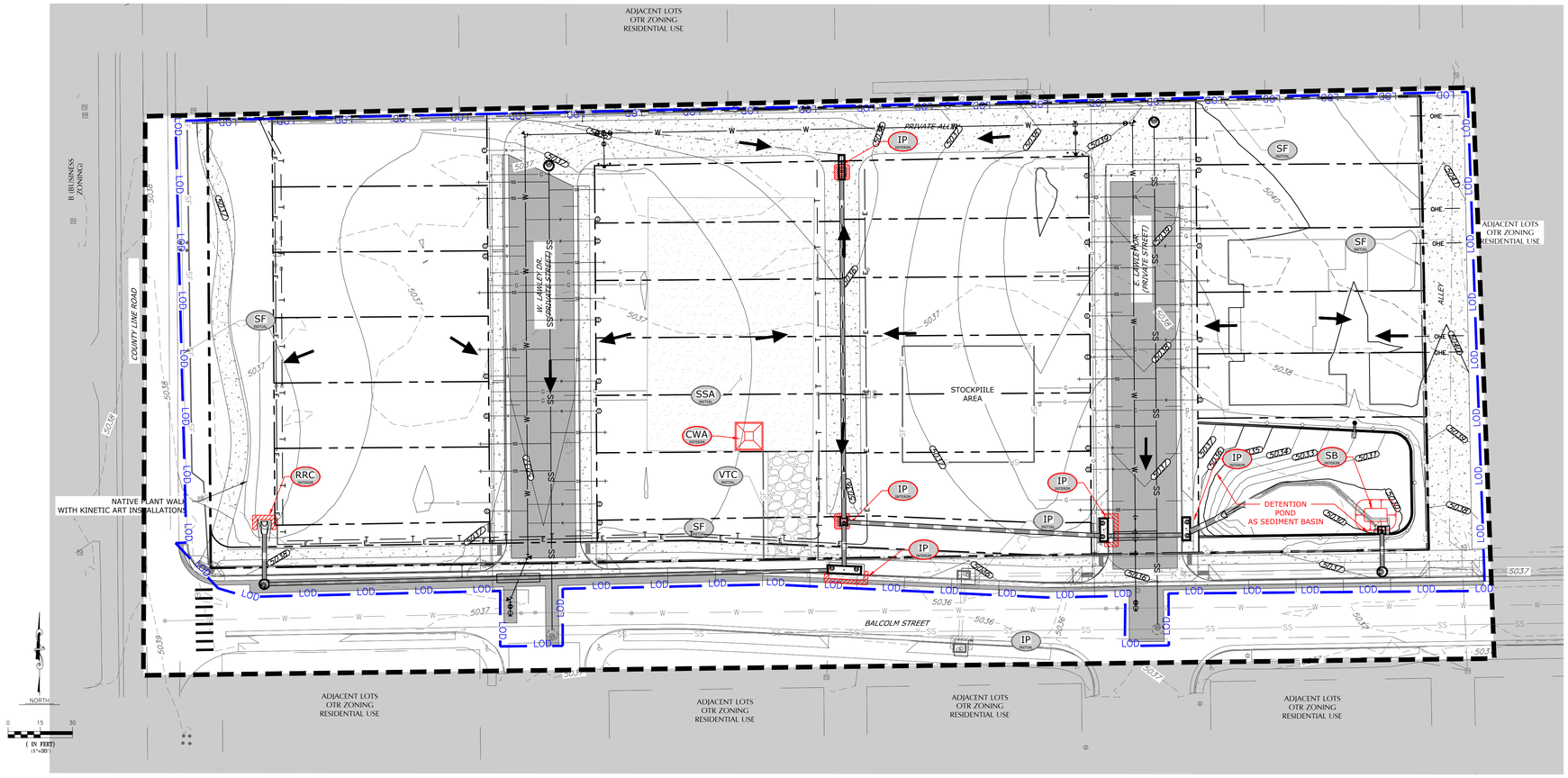
REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: JAB	DATE: JUNE 8, 2021
DRAWN BY: CAL	SCALE: H:1"=30'
CHECKED BY: JAB	
JOB NO.: 31300101	
DWG NAME:31300101_Erie_SWMP.dwg	

STORMWATER MANAGEMENT PLAN - INITIAL

SHEET: C8.0

J:\Diverge Homes - 31300101 Erie Old Town\Drawings\SHEET SET\31300101_Erie_SWMP.dwg



BMP LEGEND

CD	CHECK DAM
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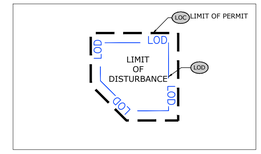
SR	SURFACE ROUGHENING
TSD	TEMPORARY SLOPE DRAIN
TSC	TEMPORARY STREAM CROSSING
TER	TERRACING
VTC	VEHICLE TRACKING CONTROL
WW	VTC WITH WHEEL WASH
LOC	LIMITS OF CONSTRUCTION
LOD	LIMITS OF DISTURBANCE
TBR	TO BE REMOVED



PROPERTY LINE

EX MAJOR CONTOURS — 5740

EX MINOR CONTOURS

PP MAJOR CONTOURS — 5740

PP MINOR CONTOURS — 5736

DIRECTION OF FLOW

NOTES:

1. FOR EROSION CONTROL NOTES SEE SHEET C1.1.
2. FOR EROSION CONTROL DETAILS SEE SHEETS C9.8 THROUGH C9.10.
3. PERMIT AREA: 3.8 ACRES
4. DISTURBED AREA: 3.2 ACRES
5. REFER TO FINAL DRAINAGE REPORT FOR ERIE JUNCTION FOR DRAINAGE AND SOILS INFORMATION.
6. THERE IS NO EXISTING VEGETATION WITHIN THE LIMIT OF DISTURBANCE TO BE PROTECTED.
7. PROPOSED CONTOURS HEREON REFLECT LOT GRADING, NOT OVERLOT CONDITIONS.

811
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LOUISVILLE, CO 80027
303.665.6668

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY: CAI
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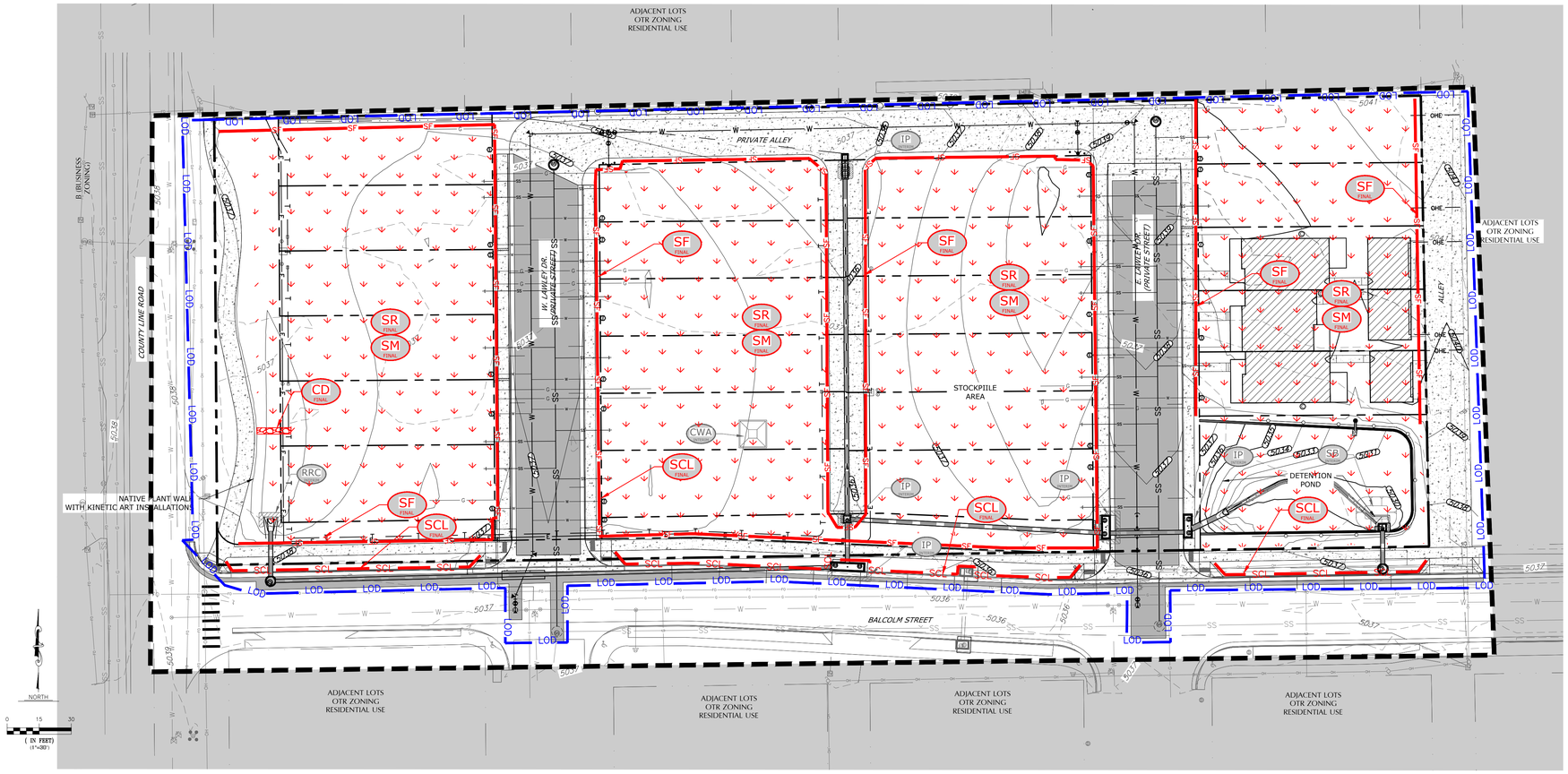
DATE: JUNE 8, 2021
SCALE: H:1"=30'
JOB NO.: 31300101
DWG NAME: 31300101_Erie_SWMPint.dwg

STORMWATER MANAGEMENT PLAN - INTERIM

SHEET: C8.1

C:\Diverge Homes - 31301\31301 Erie Old Town\Drawings\SHEET SET\PLAN SET\31300101_Erie_SWMPint.dwg



BMP LEGEND

CD	CHECK DAM	
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VTC	VEHICLE TRACKING CONTROL	
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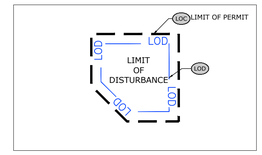
LOC	LIMITS OF CONSTRUCTION	
LOD	LIMITS OF DISTURBANCE	
TBR	TO BE REMOVED	



PROPERTY LINE

EX MAJOR CONTOURS 5740

EX MINOR CONTOURS

PP MAJOR CONTOURS 5740

PP MINOR CONTOURS 5736

DIRECTION OF FLOW

NOTES:

1. FOR EROSION CONTROL NOTES SEE SHEET C1.1.
2. FOR EROSION CONTROL DETAILS SEE SHEETS C9.8 THROUGH C9.10.
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4. DISTURBED AREA: 3.2 ACRES
5. REFER TO FINAL DRAINAGE REPORT FOR ERIE JUNCTION FOR DRAINAGE AND SOILS INFORMATION.
6. THERE IS NO EXISTING VEGETATION WITHIN THE LIMIT OF DISTURBANCE TO BE PROTECTED.
7. PROPOSED CONTOURS HEREON REFLECT LOT GRADING, NOT OVERLOT CONDITIONS.
8. THIS PLAN DEPICTS BMP'S THAT SHALL BE IN PLACE UPON COMPLETION OF INFRASTRUCTURE. ADDITIONAL BMP'S BEYOND THIS PHASE SHALL BE PROVIDED WHILE CONSTRUCTING BUILDINGS ON EACH LOT.
9. REFER TO LANDSCAPE PLANS FOR FINAL STABILIZATION OF TRACTS AND RIGHT OF WAY AREAS.
10. SEEDING AND MULCHING OF BUILDING LOTS SHALL BE INSTALLED IF BUILDING CONSTRUCTION WILL NOT START WITHIN 30 DAYS OF COMPLETION OF INFRASTRUCTURE.

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1132 JEFFERSON AVENUE
LOUISVILLE, CO 80027
303.665.6668

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
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DATE: JUNE 8, 2021
SCALE: H:1"=30'
JOB NO.: 31300101
DWG NAME:31300101_Erie_SWMPfin.dwg

STORMWATER MANAGEMENT PLAN - FINAL INFRASTRUCTURE

SHEET: C8.2

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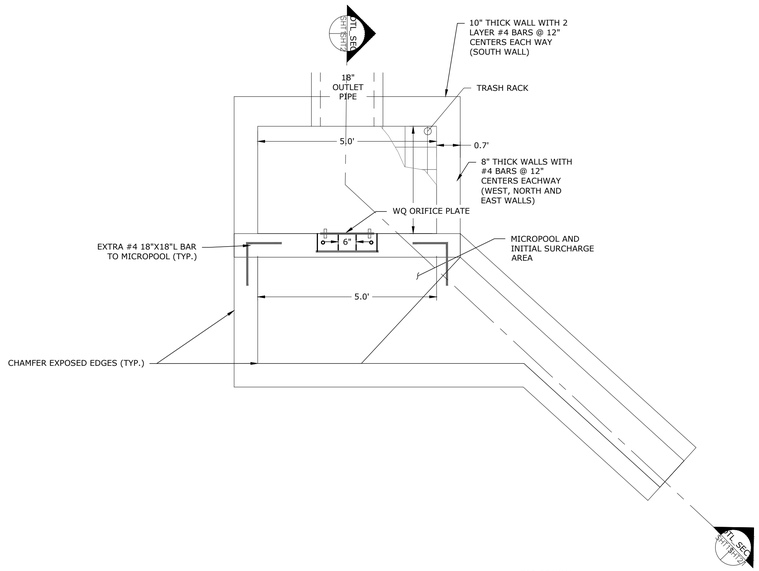
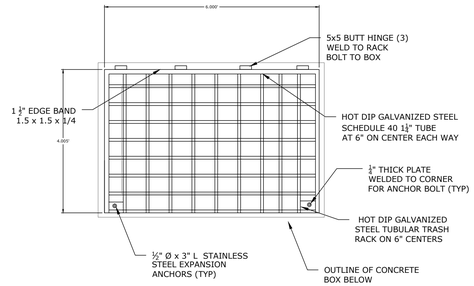
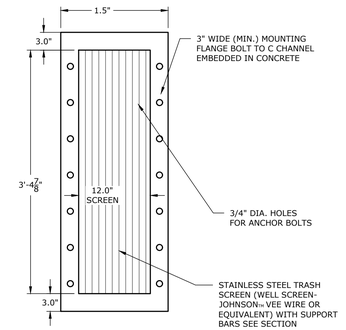


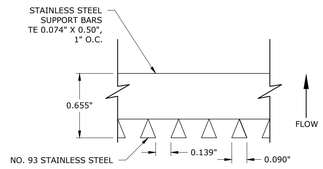
1 C10.1 OUTLET STRUCTURE
0 1 2
(IN FEET)



2 C10.1 TOP TRASH RACK
0 0.5
(IN FEET)



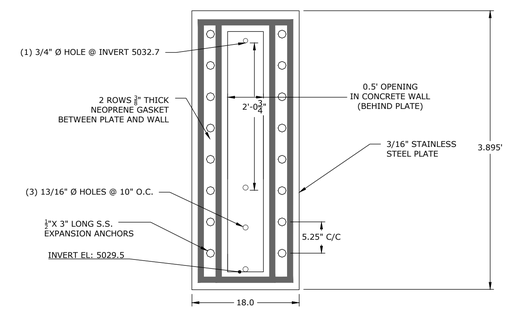
ELEVATION



R VALUE = (NET OPEN AREA)/(GROSS RACK AREA) = 0.60

SECTION
NTS

3 C10.1 SIDE TRASH RACKS
0 0.5
(IN FEET)



4 C10.1 WATER QUALITY ORIFICE PLATE
0 0.5
(IN FEET)

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FIRESTONE, CO 80504
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DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

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DRAWN BY: CAI
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg
DATE: JUNE 8, 2021
SCALE:

DETAILS 1

SHEET: C9.1

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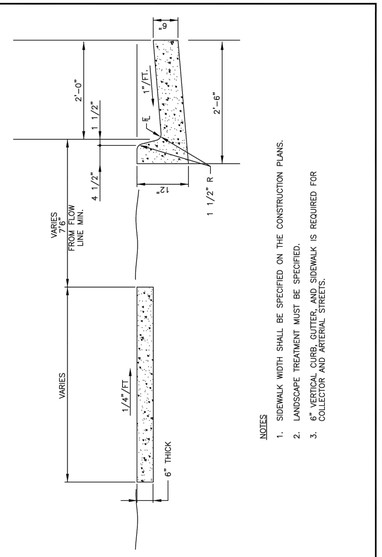
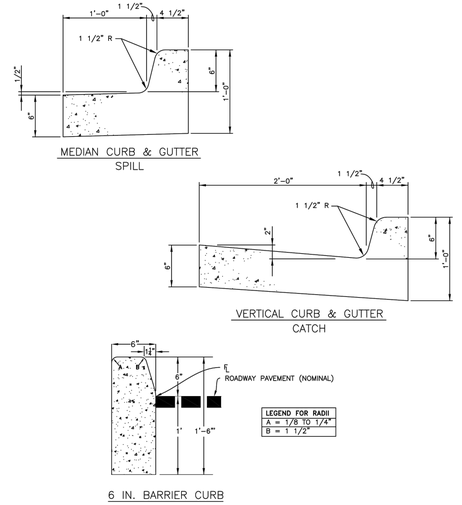


NOTES
1. SIDEWALK WIDTH SHALL BE SPECIFIED ON THE CONSTRUCTION PLANS.
2. LANDSCAPE TREATMENT MUST BE SPECIFIED.
3. 6" VERTICAL CURB, GUTTER, AND SIDEWALK IS REQUIRED FOR COLLECTOR AND ARTERIAL STREETS.

The Town of ERIE COLORADO

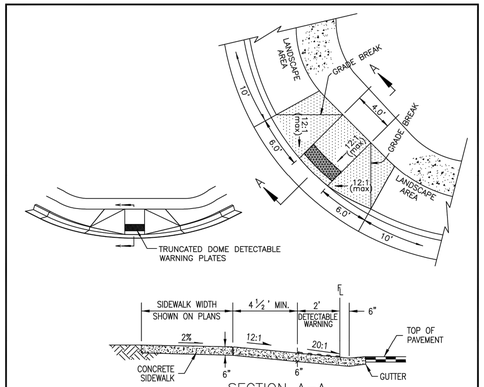
DRAWING TITLE: 6" VERTICAL CURB, GUTTER AND DETACHED SIDEWALK
DRAWING NUMBER: SW13A
DRAWN BY: J. ASCUNCE APPROVED BY: J. SMITH DATE: 11/2019



NOTES:
1. SUBGRADE TO BE COMPACTED TO 95% MODIFIED PROCTOR.

The Town of ERIE COLORADO

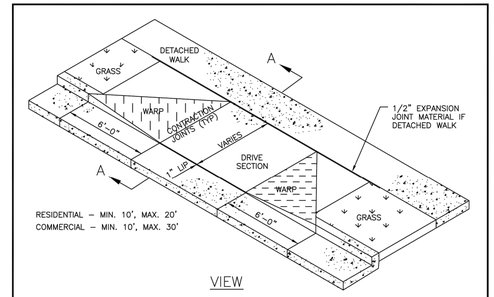
DRAWING TITLE: VERTICAL CURB SECTION
DRAWING NUMBER: SW12
DRAWN BY: J. ASCUNCE APPROVED BY: J. SMITH DATE: 05/2019



NOTES:
1. THERE SHALL BE NO LIP WHERE THE RAMP MEETS THE GUTTER.
2. CURB RAMPS SHALL BE PROVIDED AT ALL CORNERS OF STREET INTERSECTIONS AND AT "T" INTERSECTIONS WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB.
3. RAMP SURFACE SHALL HAVE A COARSE BROOM FINISH.
4. CURB RAMPS SHALL BE POURED MONOLITHICALLY WITH THE CURB, GUTTER AND APRON.
5. RAMP DIMENSIONS SHALL BE SPECIFIED ON THE CONSTRUCTION PLANS, RAMP AND WING SLOPES SHALL NOT BE STEEPER THAN 12:1.
6. RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1. THE DETECTABLE WARNING AREA SLOPE SHALL NOT BE STEEPER THAN 20:1.
7. DETECTABLE WARNINGS SHALL BE EAST JORDON IRON WORKS 7005 SERIES DETECTABLE WARNING PLATES OR APPROVED EQUAL.

The Town of ERIE COLORADO

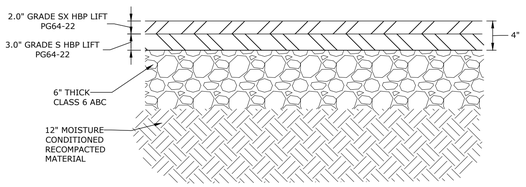
DRAWING TITLE: CURB RAMP TYPE 4 DETACHED SIDEWALK
DRAWING NUMBER: SW8
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON DATE: 08/2018



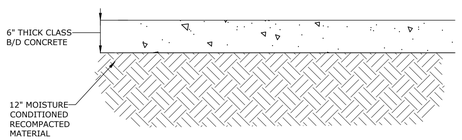
NOTES:
1. CONTRACTION JOINTS ARE REQUIRED AT EACH SIDE OF WARPED SECTION AND EVERY 10' ALONG THE DRIVE SECTION. SEE DETAILS ON DRAWING SW1 FOR CONSTRUCTION JOINT DETAILS.
2. CHAMFER FRONT EDGE OF CURB AND DRIVE SECTION AS SHOWN IN SECTION A–A.
3. SIDEWALK THICKNESS SHALL BE 6" AT DRIVEWAY

The Town of ERIE COLORADO

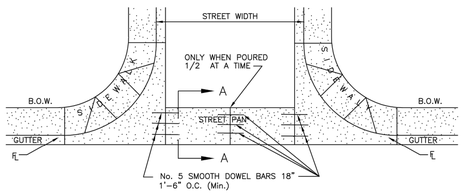
DRAWING TITLE: DRIVE CUT–DETACHED WALK
DRAWING NUMBER: SW4A
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON DATE: 08/2018

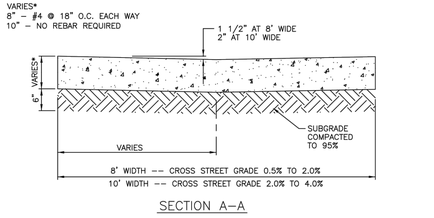


1 / C9.2 ASPHALT PAVEMENT FOR STREETS
NTS



2 / C9.2 CONCRETE PAVEMENT FOR ALLEY
NTS

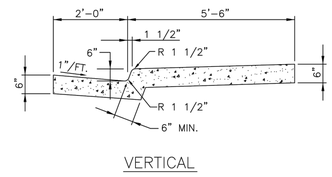


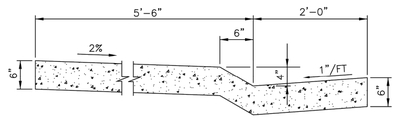


CONCRETE CROSS PAN
NOT TO SCALE

The Town of ERIE COLORADO

DRAWING TITLE: CONCRETE CROSS PAN
DRAWING NUMBER: SW3
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 06/2010

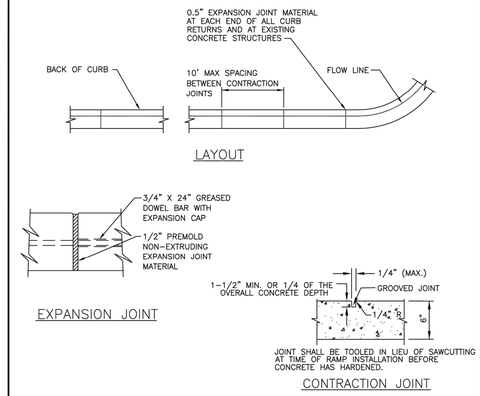




NOTES:
1. EXPANSION JOINT MATERIAL SHALL BE NON–EXTRUDING AND RESILIENT TYPE TO MEET AASHO SPEC. M–213.
2. ANY OVER–EXCAVATION SHALL BE REPLACED BY GRANULAR BACKFILL COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D–698.
3. SEE DETAILS ON DRAWING SW1 FOR EXPANSION AND CONTRACTION JOINT DETAILS.
4. FOR USE IN RESIDENTIAL AREAS OF LOCAL COLLECTORS ONLY.

The Town of ERIE COLORADO

DRAWING TITLE: MONOLITHIC INTEGRAL CURBWALK
DRAWING NUMBER: SW2
DRAWN BY: C. GERATY APPROVED BY: G. BEHLEN DATE: 03/2016



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2. ANY OVER–EXCAVATION SHALL BE REPLACED BY GRANULAR BACKFILL COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D–698.

The Town of ERIE COLORADO

DRAWING TITLE: CURB AND GUTTER JOINT DETAIL
DRAWING NUMBER: SW1
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 01/2010

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DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

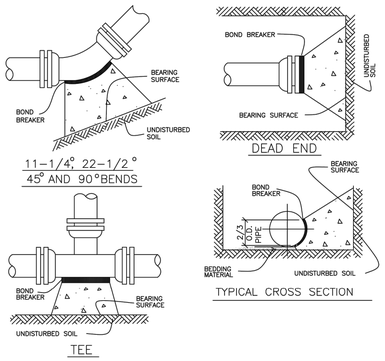
NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAL
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg
DATE: JUNE 8, 2021
SCALE:

DETAILS 2

SHEET: C9.2

J:\Diverge Homes - 31303\31301.01 Erie Old Town\Drawings\SHEET SETS\31301.01_Erie_DETAILS1.dwg



NOTES:

1. SEE THRUST BLOCKING CHART FOR MINIMUM BEARING SURFACE AREAS
2. BASED ON 150 PSI INTERNAL PIPE PRESSURE PLUS WATER HAMMER
   4",6",8" AND 12" WATER HAMMER=110 P.S.I.
   16",20" AND 24" WATER HAMMER =70 P.S.I.
3. BASED ON 3,000 pfs SOIL BEARING CAPACITY
4. THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED EARTH. FORMS SHALL BE USED AS REQUIRED TO OBTAIN ADEQUATE BEARING AND TO CONFINE THE CONCRETE. THRUST BLOCKING SHALL BEAR ON THE FITTING OR END CAP ONLY AND SHOULD NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE

The Town of ERIE COLORADO

DRAWING TITLE: THRUST BLOCK
DRAWING NUMBER: W14A
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2015

TABLE OF BEARING AREAS IN SQ. FT. FOR CONCRETE THRUST BLOCKING

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1,000 LBS. PER SQUARE FOOT SOIL BEARING CAPACITY.

SIZE	BENDS				TEES *	GATE VALVES	DEAD ENDS	CROSS W/ 1 BRANCH PLUGGED	CROSS W/ 2 BRANCHES PLUGGED
	90°	45°	22-1/2°	11-1/4°					
3	1.0	0.6	0.3	1.0	0.7	0.5	0.7	0.7	0.7
4	1.8	1.0	0.5	1.0	1.3	0.5	1.3	1.3	1.3
6	4.0	2.2	1.1	1.0	2.8	0.7	2.8	2.8	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0	5.0	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8	7.8	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3	11.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4	15.4	15.4
15	25.0	13.5	7.0	3.5	17.6	SPECIAL DESIGN	17.6	17.6	17.6
16	28.4	15.3	8.0	4.0	20.0		20.0	20.0	20.0
18	36.0	19.4	10.0	5.0	25.4		25.4	25.4	25.4
20	44.2	24.0	12.2	6.1	31.4		31.4	31.4	31.4
21	49.0	26.5	13.5	6.8	34.6		34.6	34.6	34.6
22	54.0	29.0	14.8	7.4	38.0		38.0	38.0	38.0
24	64.0	34.5	17.7	8.8	45.0		45.0	45.0	45.0
30	100.0	54.0	27.6	13.8	71.0		71.0	71.0	71.0
36	144.0	78.0	40.0	20.0	102.0		102.0	102.0	102.0

* SIZE IS BRANCH SIZE

AREAS GIVEN IN TABLE ARE BASED UPON AN INTERNAL STATIC PRESSURE OF 100 P.S.I. AND A SOIL BEARING CAPACITY OF 1,000 LBS. PER SQUARE FOOT. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F".

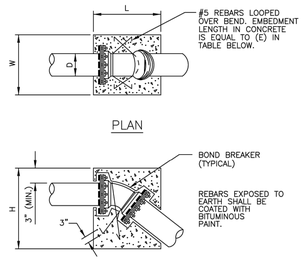
$$F = \frac{\text{ACTUAL SPECIFIED TEST PRESSURE IN HUNDRED OF LBS.}}{\text{ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.}}$$

EXAMPLE: TO FIND BEARING AREA FOR 8" – 90° BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I. AND WITH A SOIL BEARING CAPACITY OF 3,000 LBS. PER SQUARE FOOT.

F = 1.5 ÷ 3 = 0.5 TABULATED VALUE = 7.1 SQUARE FOOT.
0.5 x 7.1 = 3.56 SAY 4 SQUARE FEET OF 2 FOOT LONG BY 2 FOOT HIGH.

The Town of ERIE COLORADO

DRAWING TITLE: THRUST BLOCKING CHART
DRAWING NUMBER: W14B
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2015



SIZE OF PIPE (D)	11 1/4 DEG.					22 1/2 DEG.					45 DEG.				
	L"	W"	H"	E"	VOL	L"	W"	H"	E"	VOL	L"	W"	H"	E"	VOL
4"	12	24	24	12	4	12	34	34	12	8	22	37	32	22	15
6"	18	32	27	18	9	15	52	40	15	18	28	64	32	28	33
8"	21	40	33	21	16	22	61	40	22	31	35	64	45	35	58
10"	24	50	36	24	25	30	59	48	30	49	42	72	52	42	90
12"	31	56	36	31	36	36	70	48	36	70	45	80	62	45	129

NOTES:

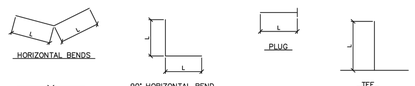
1. THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED EARTH. FORMS SHALL BE USED AS REQUIRED TO OBTAIN ADEQUATE BEARING AND TO CONFINE THE CONCRETE. THRUST BLOCKING SHALL BEAR ON THE FITTING OR END CAP ONLY AND SHOULD NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE.
2. VOLUME IS IN CUBIC FEET.
3. ALL CONCRETE TO BE 4000 P.S.I. MIN.
4. BLOCKS TO BE CENTERED HORIZONTALLY ON THE BEND.
5. DESIGN BASED ON A TEST PRESSURE OF 150 P.S.I. AND SAFETY FACTOR (S_f) OF 1.5
6. $V_G = \frac{S_f \ PA \ SIN \ \Theta}{W_m}$
7. W_m= 140 # / FT^3
8. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING THE ACTUAL SITE CONDITIONS WITH RESPECT TO THE ASSUMPTIONS LISTED ABOVE.

The Town of ERIE COLORADO

DRAWING TITLE: UPPER VERTICAL THRUST BLOCK
DRAWING NUMBER: W15
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2015

ROD DIAMETER, GRADE & LENGTH OF RESTRAINED PIPE

PIPE SIZE	4"			6"			8"			12"			16"			20"			24"		
FITTING	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
90° BEND, TEE, PLUG	3/4"	30"	MS	3/4"	45"	MS	3/4"	60"	MS	3/4"	88"	MS	1"	108"	HS	1 1/4"	132"	HS	–	155"	–
VALVE	–	–	–	–	–	–	–	–	–	–	–	–	1"	108"	HS	1 1/4"	132"	HS	–	155"	–
45° BEND	3/4"	8"	MS	3/4"	13"	MS	3/4"	18"	MS	3/4"	25"	MS	1"	32"	MS	3/4"	39"	HS	–	45"	–
22 1/2° BEND	3/4"	1"	MS	3/4"	4"	MS	3/4"	5"	MS	3/4"	7"	MS	3/4"	8"	MS	3/4"	10"	MS	–	12"	–
11 1/4° BEND	–	–	–	–	–	–	3/4"	1"	MS	3/4"	2"	MS	3/4"	2"	MS	3/4"	2"	MS	–	3"	–

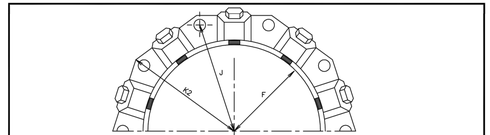


NOTES:

1. LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM VALVES AND BENDS.
2. CLAMPS AND RODS NOT ALLOWED FOR 24" & LARGER PIPES.
3. D=DIAMETER, L=LENGTH, G=GRADE, MS=MILD STEEL, HS=HIGH STRENGTH.
4. MIN 4.5' GROUND COVER REQD.
5. BASED ON 150 PSI INTERNAL PRESSURE.
6. MS = MILD STEEL ROD ASTM A 36.
7. HS = HIGH STRENGTH ROD ASTM A 193 GRADE B7.
8. NUTS SHALL BE ASTM A 307 GRADE A OR B HEXAGON HEAVY SERIES. HS NUTS SHALL CONFORM TO MS-22.
9. LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE RESTRAINED TOGETHER.
10. LENGTH OF RESTRAINED PIPE CHART IS ALSO FOR THE LENGTH OF JOINT RESTRAINT FOR MEGALIGS.
11. TEES & CROSSES MUST BE RESTRAINED IN ALL APPLICABLE DIRECTIONS.
12. 12" AND SMALLER IN LINE VALVES AND TEES SHALL HAVE A MECHANICAL JOINT RESTRAINT DEVICE ON EACH SIDE OF THE FITTING OR VALVE.
13. A SECOND VALVE WILL BE REQD TO BE CLOSED WHEN EXCAVATING NEXT TO A EXIST VALVE.
14. WHEN REDUCERS ARE USED ON VALVE INSTALLATIONS THE LENGTH OF RESTRAINT SHALL BE BASED ON THE SIZE OF THE PIPE NOT THE SIZE OF THE VALVE.
15. ALL REDUCERS/INCREASERS SHALL HAVE MECHANICAL RESTRAINT DEVICES ON EACH SIDE OF FITTING.
16. PIPE JOINT RESTRAINT MAY BE ACCOMPLISHED USING HARNESS RODS, MECHANICAL JOINT RESTRAINT OR RESTRAINED JOINT PIPE AND FITTINGS.
17. AN ANALYSIS OF THE NECESSARY RESTRAINT LENGTH FOR PIPE LARGER THAN 24" SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPT FOR REVIEW AND APPROVAL ON A CASE BY CASE BASIS.

The Town of ERIE COLORADO

DRAWING TITLE: RESTRAINED PIPE LENGTHS
DRAWING NUMBER: W16
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2015



DIMENSIONS

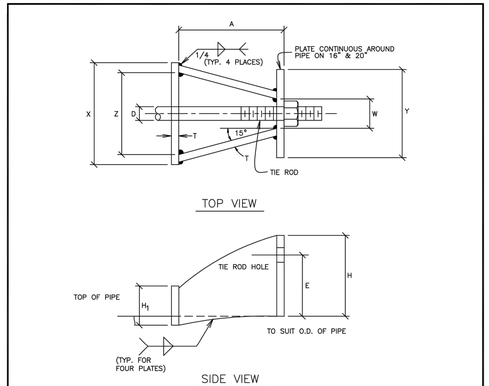
	NOMINAL PIPE SIZE	NO. OF BOLTS	NO. OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES	
PVC	4"	2	2					PVC
	6"	6	3	11.12	9.50	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	6	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	
DI	4"	4	2					DI
	6"	6	3	11.12	9.50	7.00	0.88	
	8"	6	4	13.37	11.75	9.15	1.00	
	10"	8	6	15.62	14.00	11.20	1.00	
	12"	8	8	17.88	16.25	13.30	1.25	

NOTES:

1. DIMENSIONS FOR 16" AND 20" D.I. PIPE NOT SHOWN.
2. OTHER MECHANICAL JOINT RESTRAINT DEVICES MUST BE APPROVED BEFORE INSTALLATION.

The Town of ERIE COLORADO

DRAWING TITLE: MECHANICAL JOINT RESTRAINT DETAIL
DRAWING NUMBER: W17
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2009



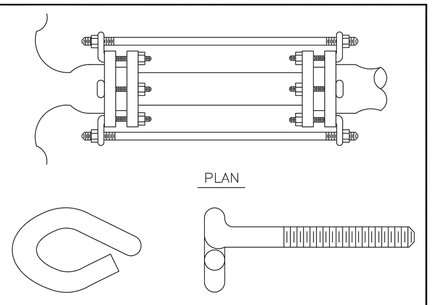
	CARRIER PIPE NOMINAL DIA.	STUD DIA. D	A	W	Z	T	H	E	H_1	Y	X
W/O FLANGED LUGS	4" TO 12"	3/4"	5"	1-1/2"	3-3/4"	3/8"	4-1/8"	3-1/8"	2"	4-1/2"	5"
	16"	1"	5-3/4"	1-3/4"	4-1/2"	1/2"	4-1/2"	3-1/4"	2"	RING	6"
	20"	1-1/4"	7-1/2"	2"	5-3/4"	5/8"	5"	3-3/4"	2-1/2"	RING	7-1/2"

NOTES:

1. USE TWO HIGH STRENGTH STEEL TIE RODS AT END OF CASING.
2. TIE ROD HOLE DIAMETER 1/8" LARGER THAN STUD DIAMETER.
3. BOTTOM EDGE OF ALL PLATES SHAPED TO FIT O.D. OF PIPE.
4. HARNESS LUGS AS PER AWWA MANUAL M-8.

The Town of ERIE COLORADO

DRAWING TITLE: COMBINATION FLANGED HARNESS LUG DETAIL
DRAWING NUMBER: W18
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2009



DIMENSIONS

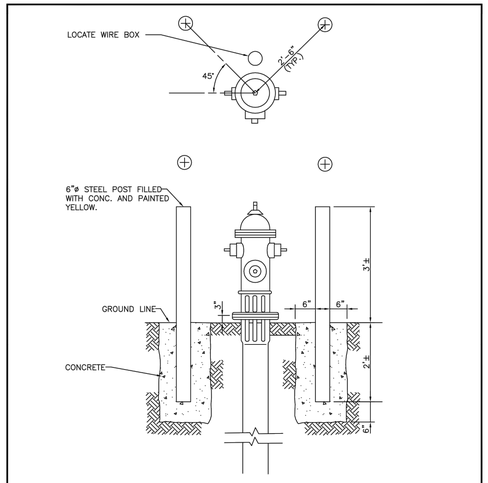
ALLOWABLE PIPE DIAMETER INCHES	BOLT SIZE	NO . OF BOLTS REQUIRED
4	3/4"	2
6	3/4"	2
8	3/4"	2
10	3/4"	4
12	3/4"	6

NOTES:

1. THE BOLT SHALL BE MANUFACTURED OF "COR-TEN" OR APPROVED EQUAL.
2. THE BOLT MAY BE HEAT TREATED.

The Town of ERIE COLORADO

DRAWING TITLE: JOINT RESTRAINT DETAIL
DRAWING NUMBER: W19
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2009



NOTES:

TO BE USED IN COMMERCIAL OR INDUSTRIAL AREAS WHERE HYDRANTS ARE UNPROTECTED FROM THE MAINFLOW OF TRAFFIC. STEAMER CONNECTION ON FIRE HYDRANT SHOULD FACE THE STREET.

The Town of ERIE COLORADO

DRAWING TITLE: FIRE HYDRANT GUARDS
DRAWING NUMBER: W20
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2009

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

CIVIL RESOURCES
8308 COLORADO BLVD
SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

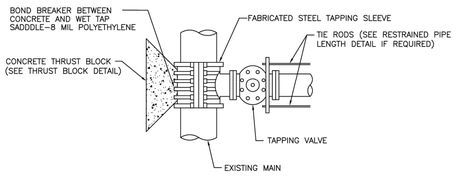
DESIGNED BY: JAB DATE: JUNE 8, 2021
DRAWN BY: CAL SCALE:
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg

DETAILS 3

811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG

SHEET: C9.3

J:\Diverge Homes - 31303.10.01 Erie Old Town\Drawings\SHEET SETS\PLAN SET\31300101_Erie_DETAILS1.dwg



NOTES:

1. FABRICATED STEEL TAPPING SLEEVE SHALL BE:

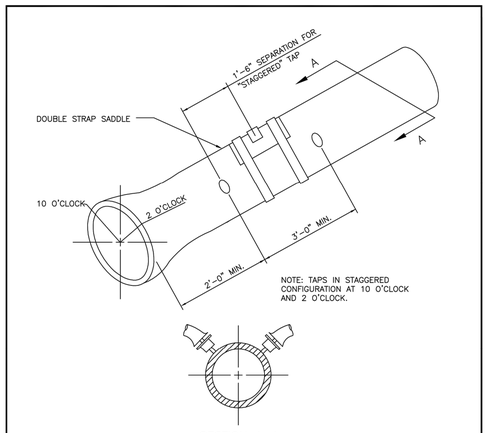
   ROMAC FTS419 OR APPROVED EQUAL TO BE USED FOR PVC UP TO 75% OF EXISTING MAIN

   ROMAC FTS420 OR APPROVED EQUAL TO BE USED FOR DIP UP TO 75% OF EXISTING MAIN

   ROMAC FTS425 OR APPROVED EQUAL TO BE USED ON ALL AC PIPE AND ANYTIME BRANCH LINE IS GREATER THAN 75% OF EXISTING MAIN

The Town of ERIE COLORADO

DRAWING TITLE: TAPPING TEE AND VALVE
DRAWING NUMBER: W21
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2015

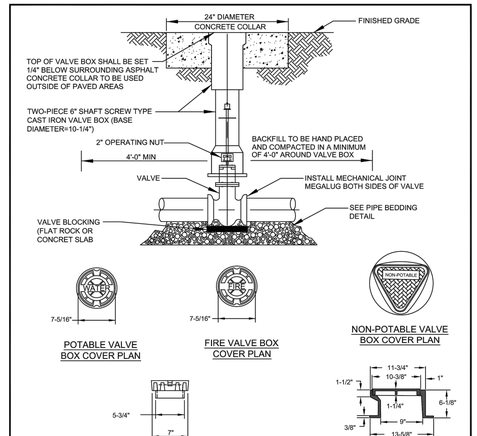


SECTION A–A

NOTE:
SERVICE TAPS – WATER SERVICE TAPS SHALL BE MADE AT EITHER THE 2 O'CLOCK OR THE 10 O'CLOCK POSITION ON THE CIRCUMFERENCE OF A WATER MAIN. THE MINIMUM DISTANCE BETWEEN A TAP MADE AT THE 2 O'CLOCK POSITION AND THE ONE MADE AT THE 10 O'CLOCK POSITION SHALL BE 18–INCHES MEASURED ALONG THE PIPE. THE MINIMUM DISTANCE BETWEEN SUCCESSIVE TAPS MADE EITHER AT THE 2 O'CLOCK OR THE 10 O'CLOCK POSITION SHALL BE 3–FEET. THE MINIMUM DISTANCE FROM EITHER THE BELL OR THE SPIGOT END OF A PIPE TO A TAP SHALL BE 2–FEET. A MAXIMUM OF 4 WATER SERVICE TAPS SHALL BE ALLOWED PER LENGTH OF PIPE. DOUBLE STRAP SADDLE (ROMAC 202B OR APPROVED EQUAL) SHALL BE USED FOR ALL SERVICE TAPS.

The Town of ERIE COLORADO

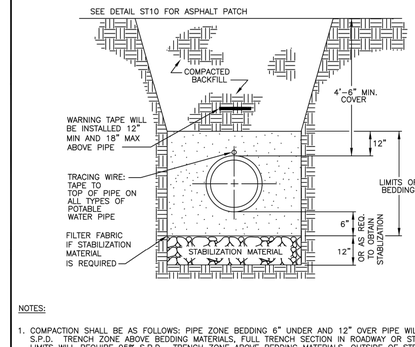
DRAWING TITLE: DOMESTIC WATER TAPPING DETAIL
DRAWING NUMBER: W22
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2010



NOTES:
1. POTABLE & FIRE VALVE BOX LID RESTS INSIDE THE UPPER VALVE BOX SECTION.
2. NON-POTABLE VALVE BOX LID SLIDES OVER THE TOP OF THE UPPER VALVE BOX SECTION.
3. NON-POTABLE, WATER OR FIRE CAST IN TOP OF APPROPRIATE VALVE BOX COVER.
4. VALVE BOX SHALL NOT BE SUPPORTED BY WATER LINE.
5. VALVE BOX TO BE PLUMB AND CENTERED OVER NUT.
6. UTILIZING A VALVE BOX ALIGNMENT DEVICE IS OPTIONAL.
7. IF 2" OPERATING NUT IS MORE THAN 6' BELOW FINISHED GRADE, A VAULT NUT EXTENDER SHALL BE INSTALLED TO PUT THE VALVE NUT AT AN ELEVATION OF 4' BELOW FINISHED GRADE.

The Town of ERIE COLORADO

DRAWING TITLE: STANDARD VALVE AND BOX
DRAWING NUMBER: W38
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 1/2015

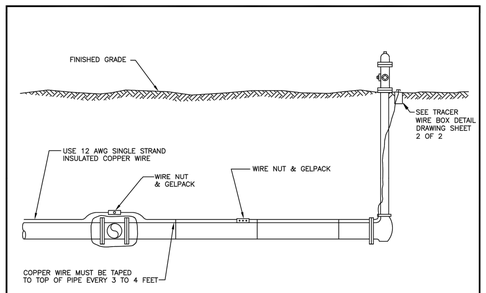


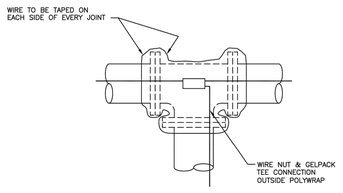
NOTES:

1. COMPACTION SHALL BE AS FOLLOWS: PIPE ZONE BEDDING 6" UNDER AND 12" OVER PIPE WILL REQUIRE 90% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, FULL TRENCH SECTION IN ROADWAY OR STREET R.O.W. LIMITS WILL REQUIRE 95% S.P.D. TRENCH ZONE ABOVE BEDDING MATERIALS, OUTSIDE OF STREET R.O.W. WILL REQUIRE 90% S.P.D.
2. 12 AWG, SINGLE STRAND INSULATED COPPER WIRE SHALL BE INSTALLED AS TRACING WIRE ABOVE ALL POTABLE WATER PIPES. THE WIRE SHALL BE CONNECTED AND COME TO THE SURFACE BEHIND THE FIRE HYDRANTS IN A TESTBOX.
3. FILTER FABRIC IS REQUIRED IF STABILIZATION MATERIAL IS USED. THE FABRIC SHALL BE INSTALLED AS SHOWN IN THE DETAIL.
4. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND PROTECTION OF OTHER UTILITIES IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
5. PIPE SHALL BE BEDDED FROM 6" BELOW THE BOTTOM OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE.
6. TRENCH WIDTH SHALL NOT BE MORE THAN 24" NOR LESS THAN 12" WIDER THAN THE LARGEST OUTSIDE DIAMETER OF THE PIPE.

The Town of ERIE COLORADO

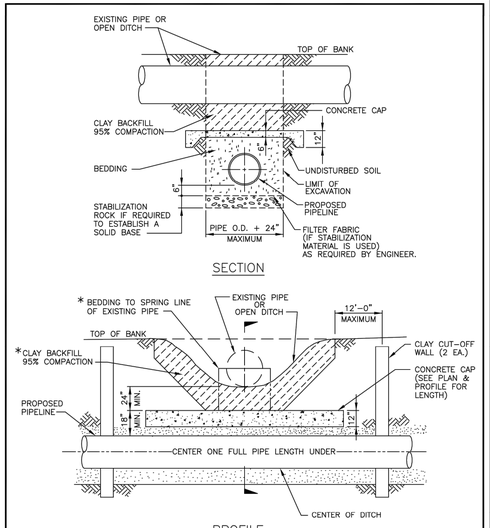
DRAWING TITLE: WATER TRENCH DETAIL
DRAWING NUMBER: W35
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON REV. DATE: 09/2017





The Town of ERIE COLORADO

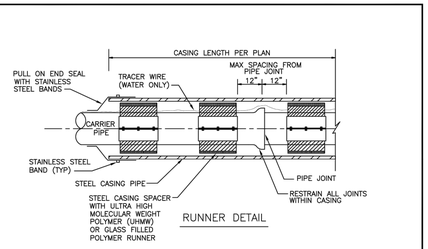
DRAWING TITLE: TRACER WIRE
DRAWING NUMBER: W32A (1 OF 2)
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON REV. DATE: 09/2017



* USE CLAY BACKFILL ONLY WHEN CROSSING OPEN DITCH. USE BEDDING MATERIAL TO SPRING LINE OF EXISTING PIPE WHEN CROSSING PIPE.

The Town of ERIE COLORADO

DRAWING TITLE: DITCH OR PIPE CROSSING
DRAWING NUMBER: W26
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2009

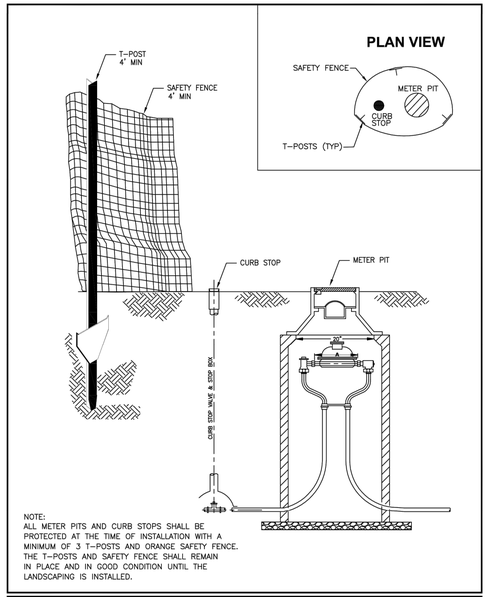


1. EACH SECTION OF PIPE WITHIN CASING SHALL HAVE A MINIMUM OF (3) CASING SPACERS/SKIDS. THE MIDDLE SPACER/SKID SHALL BE CENTERED BETWEEN PIPE JOINTS
2. WATER & SANITARY SEWER PIPE JOINTS SHALL BE RESTRAINED
3. EXTEND TRACING WIRE THROUGH CASING (WATER APPLICATIONS ONLY)
4. MINIMUM RUNNER SIZE & DISTANCE BETWEEN SPACERS SHALL BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS

CARRIER PIPE NOMINAL DIA.	CASING PIPE MIN. WALL THICK
4"	0.25"
6"	0.3125"
8"	0.3125"
12"	0.375"
16"	0.500"
20"	0.500"

The Town of ERIE COLORADO

DRAWING TITLE: CASING PIPE DETAIL
DRAWING NUMBER: W24
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2016



NOTE:
ALL METER PITS AND CURB STOPS SHALL BE PROTECTED AT THE TIME OF INSTALLATION WITH A MINIMUM OF 3 T–POSTS AND ORANGE SAFETY FENCE. THE T–POSTS AND SAFETY FENCE SHALL REMAIN IN PLACE AND IN GOOD CONDITION UNTIL THE LANDSCAPING IS INSTALLED.

The Town of ERIE COLORADO

DRAWING TITLE: METER PIT & CURB STOP PROTECTION
DRAWING NUMBER: W12C
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2012

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SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAL
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg
DATE: JUNE 8, 2021
SCALE:

DETAILS 4

SHEET: C9.4

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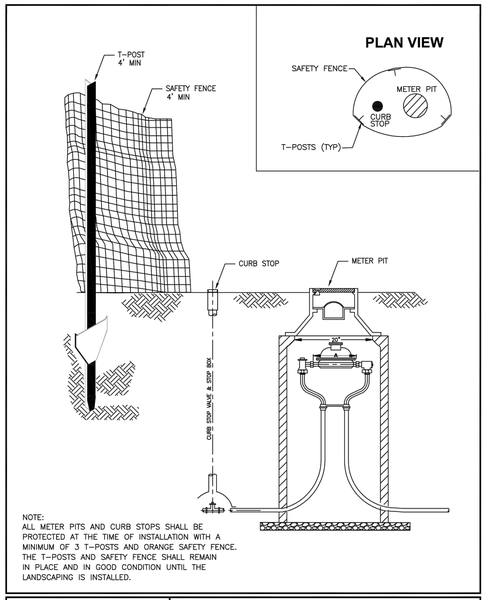
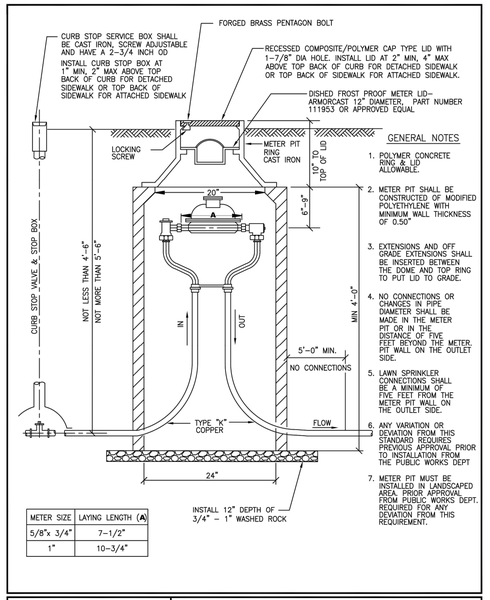


The Town of ERIE COLORADO

DRAWING TITLE: METER PIT & CURB STOP PROTECTION
DRAWING NUMBER: W12C
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2012



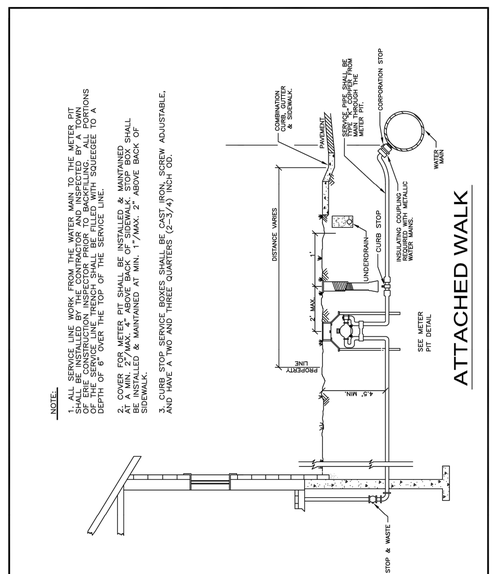
METER SIZE	LAYING LENGTH (A)
5/8"x 3/4"	7-1/2"
1"	10-3/4"

GENERAL NOTES

1. POLYMER CONCRETE RING & LID ALLOWABLE.
2. METER PIT SHALL BE CONSTRUCTED OF MODIFIED POLYETHYLENE WITH MINIMUM WALL THICKNESS OF 0.50"
3. EXTENSIONS AND OFF GRADE EXTENSIONS SHALL BE INSERTED BETWEEN THE DOME AND TOP RING TO PUT LID TO GRADE.
4. NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF FIVE FEET BEYOND THE METER PIT WALL ON THE OUTLET SIDE.
5. LAWN SPRINKLER CONNECTIONS SHALL BE A MINIMUM OF FIVE FEET FROM THE METER PIT WALL ON THE OUTLET SIDE.
6. ANY VARIATION OR DEVIATION FROM THIS STANDARD REQUIRES PREVIOUS APPROVAL PRIOR TO INSTALLATION FROM THE PUBLIC WORKS DEPT
7. METER PIT MUST BE INSTALLED IN LANDSCAPED AREA. PRIOR APPROVAL FROM PUBLIC WORKS DEPT. REQUIRED FOR ANY DEVIATION FROM THIS REQUIREMENT.

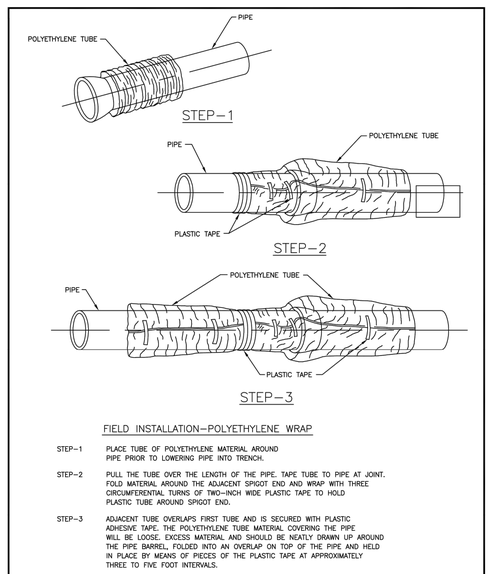
The Town of ERIE COLORADO

DRAWING TITLE: POTABLE WATER METER PIT 3/4" & 1" METER
DRAWING NUMBER: W12A
DRAWN BY: D. BORRASTERO APPROVED BY: D. PASIC REV. DATE: 08/2020



The Town of ERIE COLORADO

DRAWING TITLE: POTABLE SERVICE LINE ATTACHED WALK
DRAWING NUMBER: W11A (1 OF 2)
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2015



FIELD INSTALLATION-POLYETHYLENE WRAP

STEP-1 PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH.

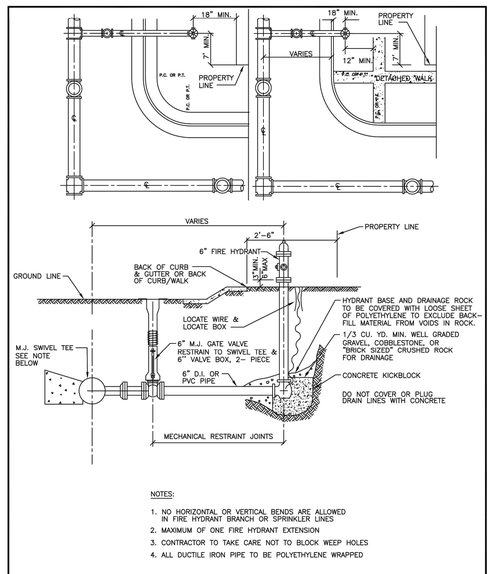
STEP-2 PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.

STEP-3 ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL AND SHOULD BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC TAPE AT APPROXIMATELY THREE TO FIVE FOOT INTERVALS.

NOTE: ALL RODDING TO BE ENCASED IN POLYETHYLENE SEPARATED FROM THE PIPE

The Town of ERIE COLORADO

DRAWING TITLE: POLYETHYLENE WRAP
DRAWING NUMBER: W9
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 06/2004



NOTES:

1. NO HORIZONTAL OR VERTICAL BENDS ARE ALLOWED IN FIRE HYDRANT BRANCH OR SPRINKLER LINES
2. MAXIMUM OF ONE FIRE HYDRANT EXTENSION
3. CONTRACTOR TO TAKE CARE NOT TO BLOCK WEEP HOLES
4. ALL DUCTILE IRON PIPE TO BE POLYETHYLENE WRAPPED

The Town of ERIE COLORADO

DRAWING TITLE: FIRE HYDRANTS, MAINS & VALVES
DRAWING NUMBER: W7
DRAWN BY: D. BORRASTERO APPROVED BY: D. PASIC DATE: 08/2020

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REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB DATE: JUNE 8, 2021
DRAWN BY: CAI SCALE:
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg

DETAILS 5

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SHEET: C9.5

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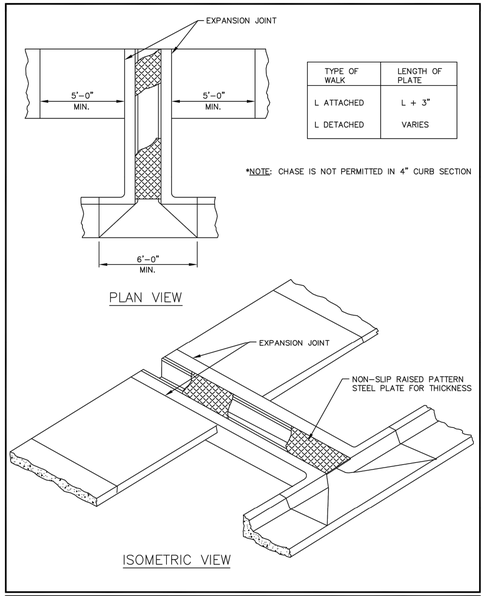


TYPE OF WALK	LENGTH OF PLATE
L ATTACHED	L + 3"
L DETACHED	VARIES

*NOTE: CHASE IS NOT PERMITTED IN 4" CURB SECTION

The Town of ERIE COLORADO

DRAWING TITLE: SIDEWALK CHASE DETAIL
DRAWING NUMBER: STM9A (1 OF 2)
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON DATE: 10/2018

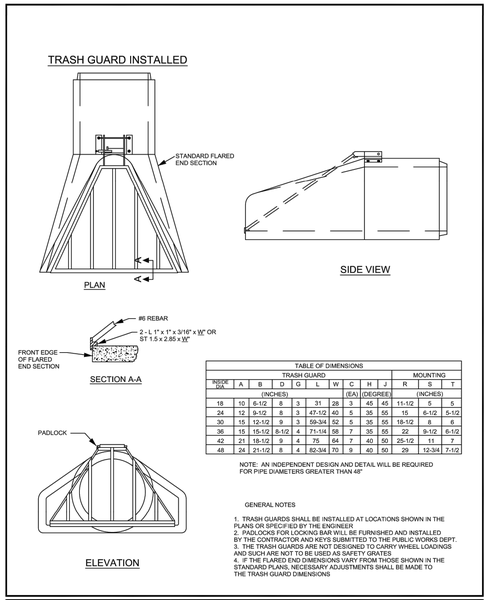


TABLE OF DIMENSIONS													
	TRASH GUARD										MOUNTING		
INSIDE DIA.	A	B	D	G	L	W	C	H	J	R	S	T
	(INCHES)						(EA)	(DEGREE)		(INCHES)		
18	10	6-1/2	8	3	31	28	3	45	45	11-1/2	5	5
24	12	9-1/2	8	3	47-1/2	40	5	35	55	15	6-1/2	5-1/2
30	15	12-1/2	9	3	59-3/4	52	5	35	55	18-1/2	8	6
36	15	15-1/2	8-1/2	4	71-1/4	58	7	35	55	22	9-1/2	6-1/2
42	21	18-1/2	9	4	75	64	7	40	50	25-1/2	11	7
48	24	21-1/2	8	4	82-3/4	70	9	40	50	29	12-3/4	7-1/2

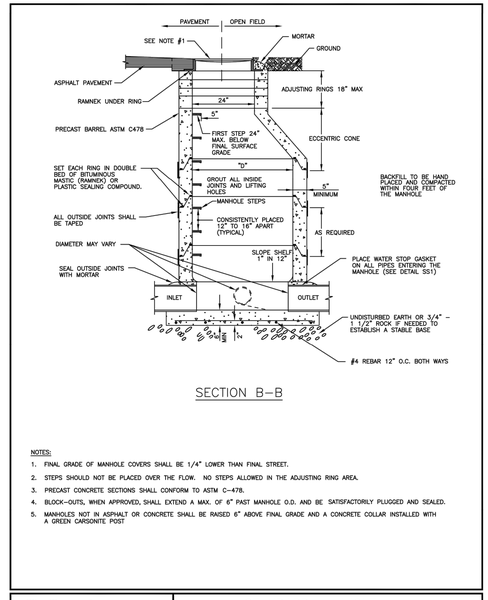
NOTE: AN INDEPENDENT DESIGN AND DETAIL WILL BE REQUIRED FOR PIPE DIAMETERS GREATER THAN 48"

GENERAL NOTES

1. TRASH GUARDS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE PLANS OR SPECIFIED BY THE ENGINEER
2. PADLOCKS FOR LOCKING BAR WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND KEYS SUBMITTED TO THE PUBLIC WORKS DEPT.
3. THE TRASH GUARDS ARE NOT DESIGNED TO CARRY WHEEL LOADINGS AND SUCH ARE NOT TO BE USED AS SAFETY GRATES
4. IF THE FLARED END DIMENSIONS VARY FROM THOSE SHOWN IN THE STANDARD PLANS, NECESSARY ADJUSTMENTS SHALL BE MADE TO THE TRASH GUARD DIMENSIONS

The Town of ERIE COLORADO

DRAWING TITLE: TRASH GUARD FOR CONDUIT (RCP)
DRAWING NUMBER: STM8A (1 OF 3)
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 06/2004

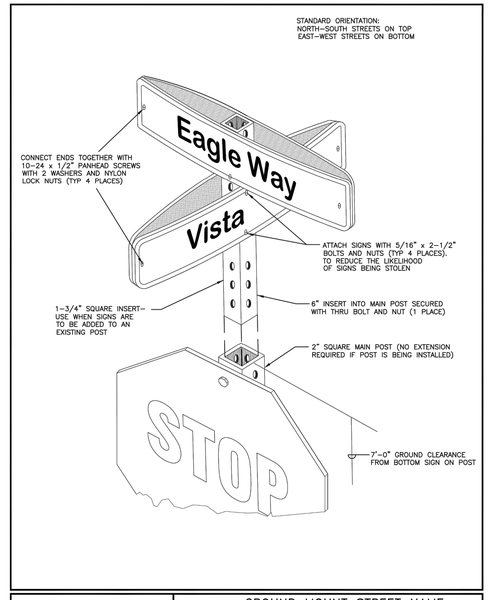


NOTES:

1. FINAL GRADE OF MANHOLE COVERS SHALL BE 1/4" LOWER THAN FINAL STREET.
2. STEPS SHOULD NOT BE PLACED OVER THE FLOW. NO STEPS ALLOWED IN THE ADJUSTING RING AREA.
3. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C-478.
4. BLOCK-OUTS, WHEN APPROVED, SHALL EXTEND A MAX. OF 6" PAST MANHOLE O.D. AND BE SATISFACTORILY PLUGGED AND SEALED.
5. MANHOLES NOT IN ASPHALT OR CONCRETE SHALL BE RAISED 6" ABOVE FINAL GRADE AND A CONCRETE COLLAR INSTALLED WITH A GREEN CARSONITE POST

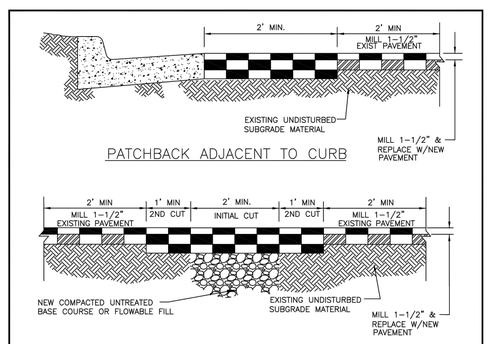
The Town of ERIE COLORADO

DRAWING TITLE: STANDARD MANHOLE
DRAWING NUMBER: STM1A
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN REV. DATE: 01/2012



The Town of ERIE COLORADO

DRAWING TITLE: GROUND MOUNT STREET NAME SIGN INSTALLATION
DRAWING NUMBER: ST15A
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON DATE: 09/2017

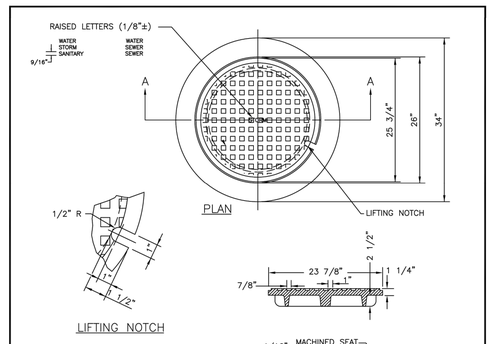


NOTE:

1. IF ASPHALT PATCH THICKNESS IS NOT IDENTIFIED ON PLANS USE 6-1/2" MIN ASPHALT PATCH OR MATCH EXISTING, WHICH EVER THICKNESS IS GREATER.
2. MINIMUM DEPTH OF WEARING COURSE SHALL BE 1-1/2" AND SHALL BE GRADING SX ASPHALT.
3. MINIMUM DEPTH OF INTERMEDIATE COURSE SHALL BE 5" AND BE INSTALLED IN 2 LIFTS. INTERMEDIATE COURSE SHALL BE GRADING S OR G ASPHALT.
4. PATCH SHALL BE PLACED AND COMPACTED IN LIFTS A MAXIMUM OF 3" IN DEPTH.
5. APPLY SS-I TACK COAT TO EXISTING ASPHALT AND/OR CONCRETE VERTICAL SURFACES.
6. TRENCHES LESS THAN 2' IN WIDTH MUST RECEIVE PRIOR APPROVAL FROM THE TOWN OF ERIE ENGINEERING DEPARTMENT AND SHALL BE FLOW-FILLED.
7. PROVIDE 28 DAY 60 PSI CONTROLLED LOW STRENGTH FLOWABLE FILL AS SPECIFIED. USE FILL THAT FLOWS EASILY AND VIBRATION IS NOT REQUIRED. CURE TO INITIAL SET BEFORE PLACING NEW UNTREATED BASE COURSE OR NEW ASPHALT PAVEMENT. USE FLOWABLE FILL IN EXCAVATIONS THAT ARE TOO NARROW TO RECEIVE COMPACTION EQUIPMENT.
8. REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, A CURB, AN EXISTING PAVEMENT PATCH, OR AN EDGE OF THE PAVEMENT IF SUCH STREET FEATURE IS WITHIN TWO FEET OF THE SECOND SAW CUT.
9. PROVIDE UNTREATED BASE COURSE MATERIAL. DO NOT USE GRAVEL OR WASHED ROCK. PLACE NEW MATERIAL IN LIFTS NOT EXCEEDING 8" AFTER COMPACTION. COMPACT TO A MODIFIED PROCTOR DENSITY OF 95% OR GREATER.
10. STRAIGHT SAWCUT OR BLADECUT THE EXISTING ASPHALT PAVEMENT WHEN JOINING WITH NEW ASPHALT PAVEMENT.

The Town of ERIE COLORADO

DRAWING TITLE: TRENCH AND CURB PATCH
DRAWING NUMBER: ST10
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 1/2014



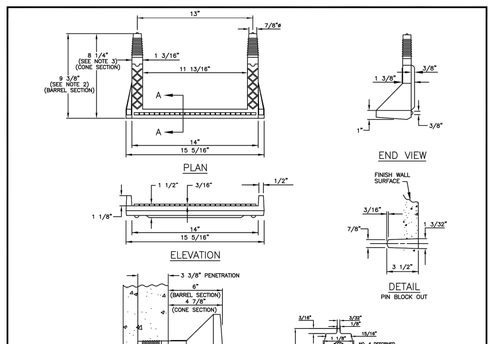
1. CASTING SPECIFICATIONS: ASTM A-48 WITH A MINIMUM TENSILE STRENGTH OF 25 KSI (CLASS 25)
2. ALL CASTINGS TO BE DIPPED IN ASPHALT BASE PAINT (OR APPROVED EQUAL)
3. CASTINGS SHALL BE AS SPECIFIED BELOW OR APPROVED EQUAL:

MANUFACTURERS	CAT. #
NEENAH	R-1706
CASTINGS, INC.	MH-400-24 C.I.
HUTCHINSON FDRY. & STL. INC.	MH-400

4. ALL NEW MANHOLES MUST INCLUDE A PLASTIC OR VINYL TAG ATTACHED TO THE TOP STEP STATING THE FOLLOWING "CAUTION CONFINED SPACE; ENTRY PERMIT REQUIRED.

The Town of ERIE COLORADO

DRAWING TITLE: 24" MANHOLE RING AND COVER
DRAWING NUMBER: STM1B
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 1/2015

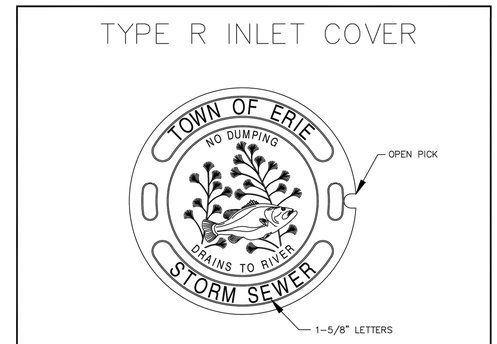


NOTES:

1. ASTM SPECIFICATIONS:
   A. ASTM C-478
   B. ASTM A-615 GRADE 60 (STEEL REBAR).
   C. ASTM D146-69, TYPE III, GRADE 16906 (POLYPROPYLENE).
2. STEPS INSTALLED IN MANHOLE BARREL SECTIONS OR VERTICAL WALLS OF STRUCTURES SHALL HAVE A 9 3/8 INCH LEG AND SHALL PROJECT FROM THE WALL 6 INCHES.
3. STEPS INSTALLED IN MANHOLE CONE SECTIONS SHALL HAVE AN 8 1/4 INCH LEG AND SHALL PROJECT FROM THE WALL 4 7/8 INCHES.
4. ALL STEPS SHALL HAVE A PENETRATION DEPTH INTO THE WALL OF 3 3/8 INCHES.
5. STEPS SHALL BE INSTALLED BY THE "PRESS-FIT" METHOD UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN, FOLLOWING MANUFACTURER'S RECOMMENDED PROCEDURE AND SHALL NOT BE GROUTED IN PLACE.
6. INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 LB. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
7. PINS MUST BE SMOOTH AND CONTINUOUSLY TAPERED. DIMENSIONS OF THE PIN AND THE INSERTED PORTION OF THE MANHOLE STEP ARE TYPICAL ONLY. W.M.D. INSTALLATIONS REQUIRE A MATCHED COMBINATION OF A TAPERED INSERT PIN AND MANHOLE STEP, AS RECOMMENDED OR REQUIRED BY SPECIFIC MANUFACTURER OF THE STEP TO BE USED.
8. THIS STEP CAN ALSO BE USED IN TOE POCKET INSTALLATIONS PROVIDED 5" TOE CLEARANCE IS ALLOWED.

The Town of ERIE COLORADO

DRAWING TITLE: MANHOLE STEPS
DRAWING NUMBER: STM2
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 06/2004



NOTE:
MATERIAL TO BE CAST GRAY IRON ASTM A-48 CLASS 35B, NO PAINT

The Town of ERIE COLORADO

DRAWING TITLE: INLET & INLET COVER
DRAWING NUMBER: STM3
DRAWN BY: D. BORRASTERO APPROVED BY: J. SMITH DATE: 11/2019

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REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: JAB
DRAWN BY: CAL
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg
DATE: JUNE 8, 2021
SCALE:

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SHEET: C9.6

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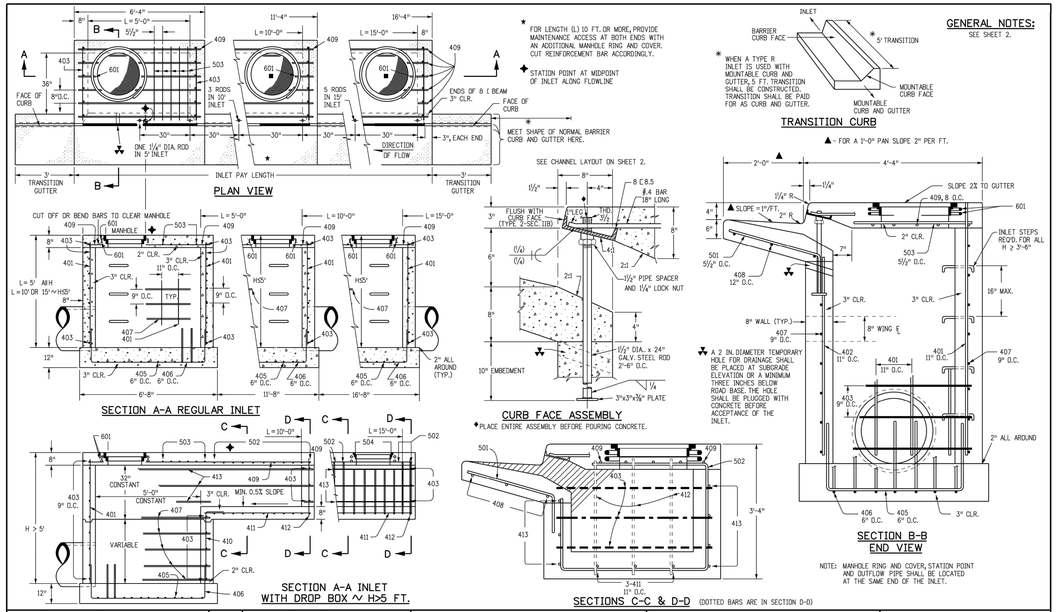

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Creation Date: 07/04/12	Initials: DD	Date:	Comments
Last Modification Date: 07/04/12	Initials: LTA		
Full Path: www.coloradodot.info/business/designsupport			
Drawing File Name: 604012010 2.dgn			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			

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Denver, Colorado 80222
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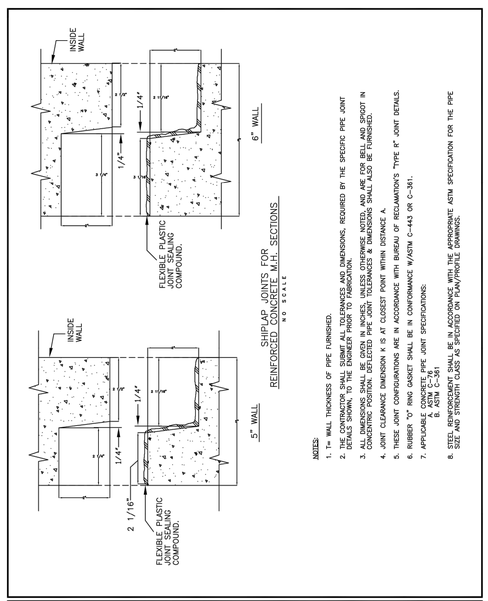
Fax: (303) 757-9820
Project Development Branch DD/LTA

CURB INLET TYPE R

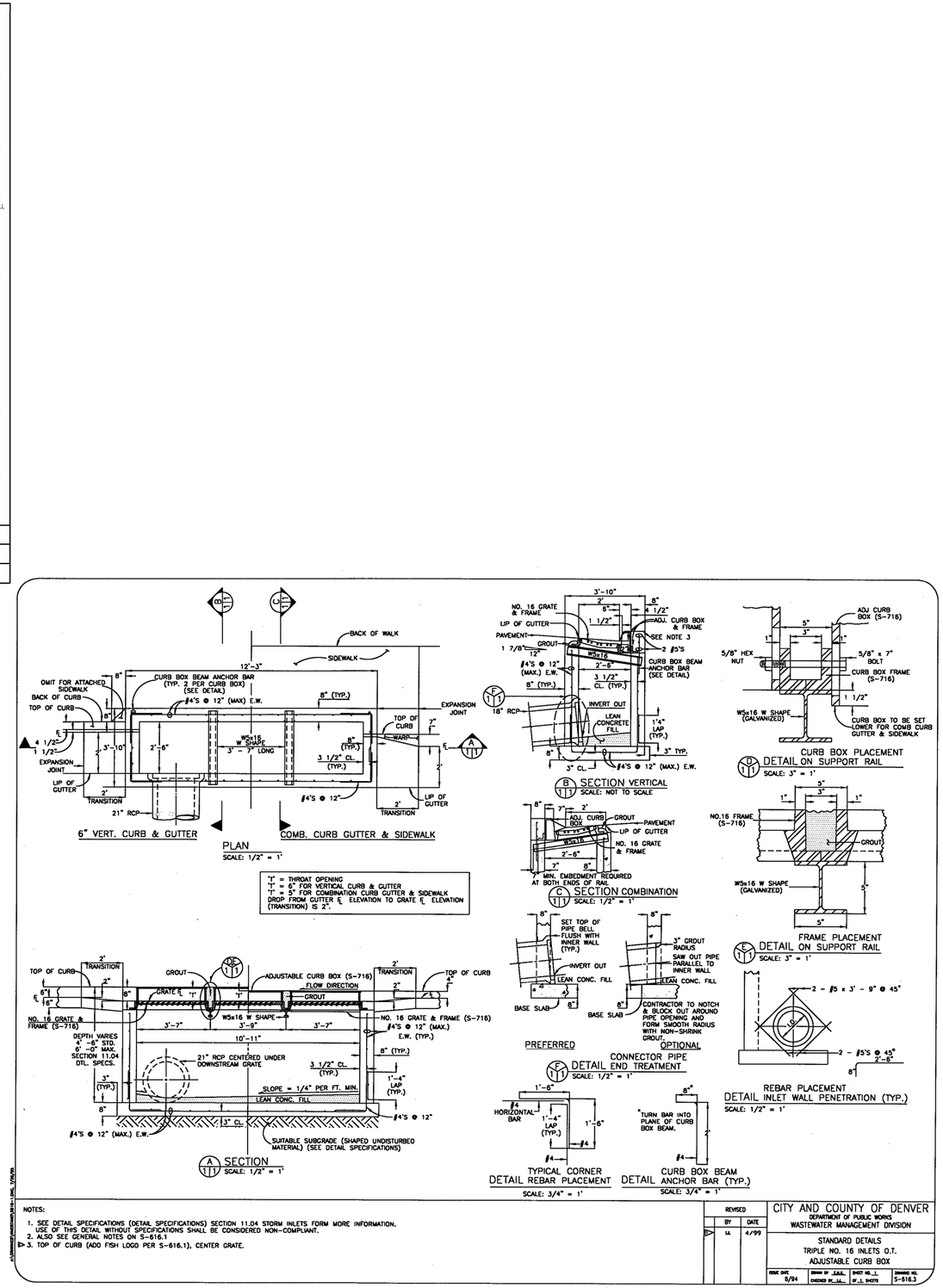
Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-12
Sheet No. 1 of 2



The Town of ERIE COLORADO

DRAWING TITLE: CONCRETE PIPE JOINTS – SHIPLAP
DRAWING NUMBER: STM4A (1 OF 2)
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 01/2012



NOTES:
1. SEE DETAIL SPECIFICATIONS (DETAIL SPECIFICATIONS) SECTION 11.04 STORM INLETS FORM MORE INFORMATION. USE OF THIS DETAIL WITHOUT SPECIFICATIONS SHALL BE CONSIDERED NON-COMPLIANT.
2. ALSO SEE GENERAL NOTES ON S-616.1
3. TOP OF CURB (ADD FISH LOGO PER S-616.1), CENTER GRATE.

REVISED		
	BY	DATE
▷	LL	4/99

CITY AND COUNTY OF DENVER
DEPARTMENT OF PUBLIC WORKS
WASTEWATER MANAGEMENT DIVISION
STANDARD DETAILS
TRIPLE NO. 16 INLETS O.T.
ADJUSTABLE CURB BOX

ISSUE DATE	DRAWN BY	SHEET NO.	DRAWING NO.
8/94	CHECKED BY: LL	OF 1 SHEETS	S-616.3

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DESIGNED BY: JAB	DATE: JUNE 8, 2021
DRAWN BY: CAL	SCALE:
CHECKED BY: JAB	
JOB NO.: 31300101	
DWG NAME: 31300101_Erie_DETAILS1.dwg	

DETAILS 7

SHEET: C9.7

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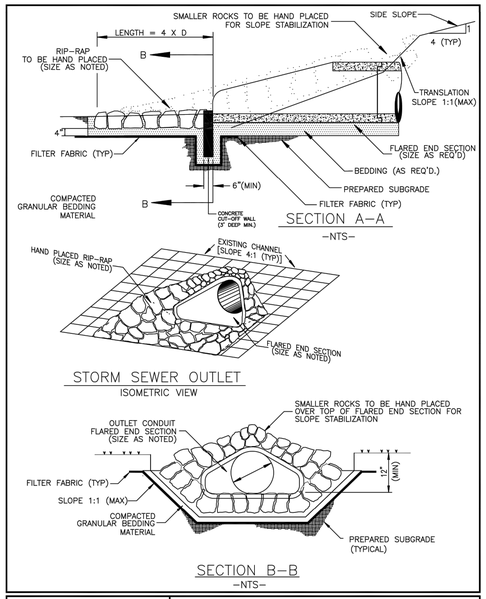
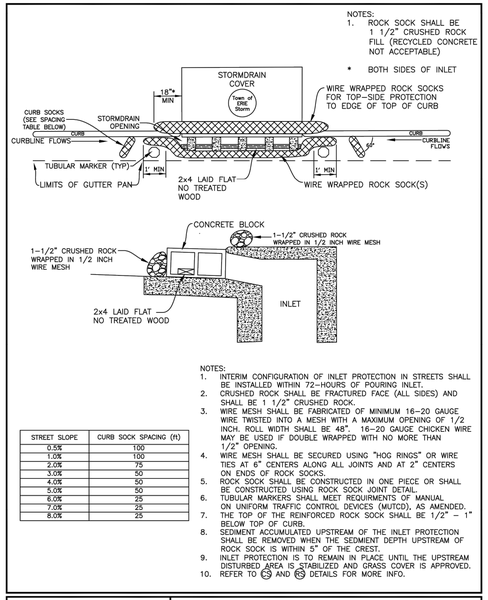


The Town of ERIE COLORADO

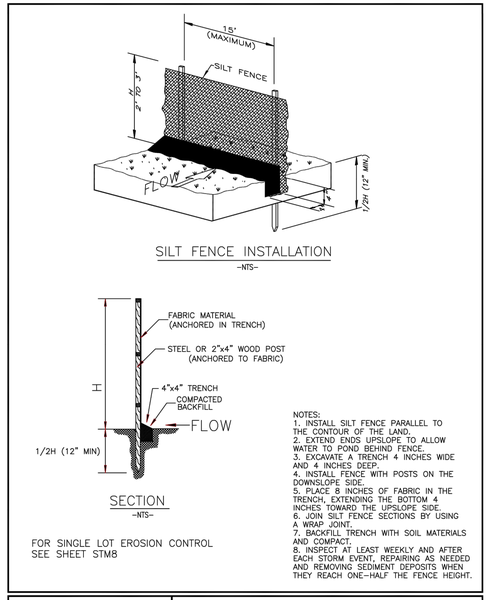
DRAWING TITLE: FLARED END SECTION OUTLET
DRAWING NUMBER: STM2
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON DATE: 10/2018



STREET SLOPE	CURB SOCK SPACING (ft)
0.5%	100
1.0%	100
2.0%	75
3.0%	50
4.0%	50
5.0%	50
6.0%	25
7.0%	25
8.0%	25

The Town of ERIE COLORADO

DRAWING TITLE: INLET PROTECTION
DRAWING NUMBER: STM3
DRAWN BY: J. ASCUNCE APPROVED BY: R. PENNINGTON DATE: 08/2018

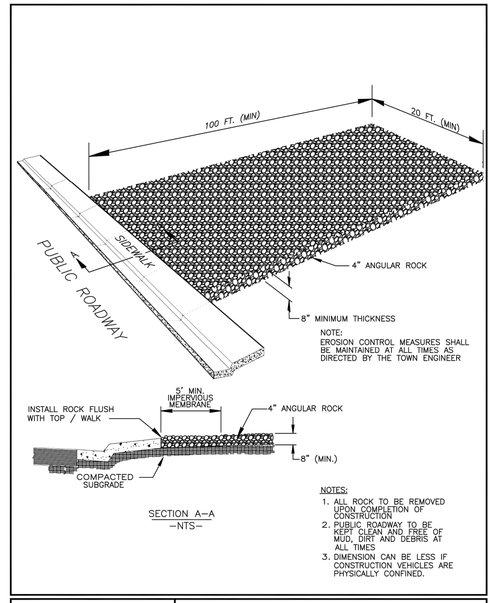


FOR SINGLE LOT EROSION CONTROL SEE SHEET STM8

NOTES:
1. INSTALL SILT FENCE PARALLEL TO THE CONTOUR OF THE LAND.
2. EXTEND ENDS UPSLOPE TO ALLOW WATER TO POND BEHIND FENCE.
3. EXCAVATE A TRENCH 4 INCHES WIDE AND 4 INCHES DEEP.
4. INSTALL FENCE WITH POSTS ON THE DOWNSLOPE SIDE.
5. PLACE 8 INCHES OF FABRIC IN THE TRENCH, EXTENDING THE BOTTOM 4 INCHES TOWARD THE UPSLOPE SIDE.
6. JOIN SILT FENCE SECTIONS BY USING A WRAP JOINT.
7. BACKFILL TRENCH WITH SOIL MATERIALS AND COMPACT.
8. INSPECT AT LEAST WEEKLY AND AFTER EACH STORM EVENT, REPAIRING AS NEEDED AND REMOVING SEDIMENT DEPOSITS WHEN THEY REACH ONE-HALF THE FENCE HEIGHT.

The Town of ERIE COLORADO

DRAWING TITLE: SILT FENCE EROSION BARRIER
DRAWING NUMBER: STM4
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 06/2004

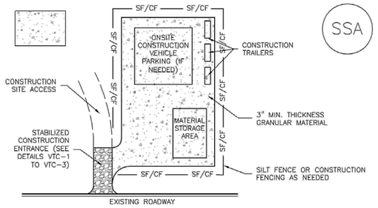


NOTES:
1. ALL ROCK TO BE REMOVED UPON COMPLETION OF CONSTRUCTION
2. PUBLIC ROADWAY TO BE KEPT CLEAN AND FREE OF MUD, DIRT AND DEBRIS AT ALL TIMES
3. DIMENSION CAN BE LESS IF CONSTRUCTION VEHICLES ARE PHYSICALLY CONFINED.

The Town of ERIE COLORADO

DRAWING TITLE: TRACKING CONTROL PAD- CRUSHED ROCK
DRAWING NUMBER: STM6A
DRAWN BY: J. ASCUNCE APPROVED BY: J. SMITH DATE: 05/2017

Stabilized Staging Area (SSA) SM-6



SSA-1. STABILIZED STAGING AREA

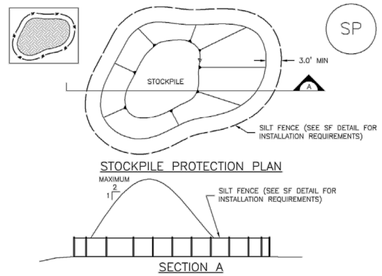
STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   -LOCATION OF STAGING AREA(S).
   -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

Stockpile Management (SP) MM-2

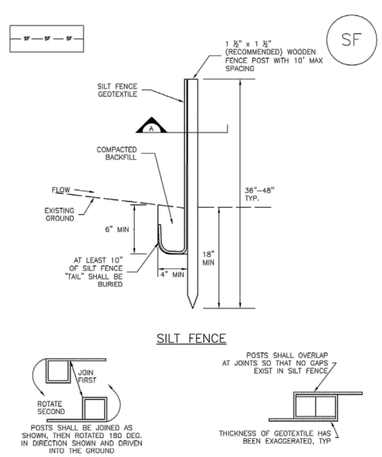


SP-1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

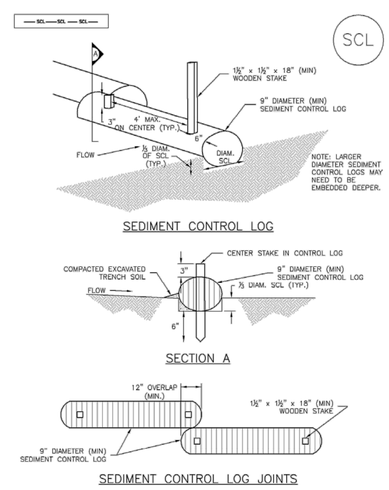
1. SEE PLAN VIEW FOR:
   -LOCATION OF STOCKPILES.
   -TYPE OF STOCKPILE PROTECTION.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

Silt Fence (SF) SC-1



SF-1. SILT FENCE

Sediment Control Log (SCL) SC-2



SCL-1. SEDIMENT CONTROL LOG

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

CIVIL RESOURCES
8308 COLORADO BLVD
SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: JAB DATE: JUNE 8, 2021
DRAWN BY: CAL SCALE:
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg

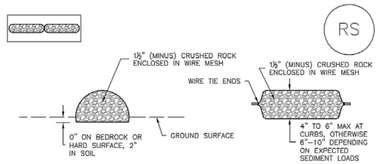
DETAILS - EROSION CONTROL 1

SHEET: C9.8

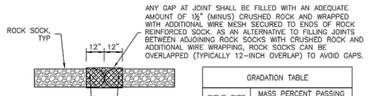
811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG

J:\Diverge Homes - 31301\130101 Erie Ops Town\Drawings\SHEET\SHEET PLAN SET\31300101_Erie_DETAILS1.dwg

SC-5 Rock Sock (RS)



ROCK SOCK SECTION ROCK SOCK PLAN



ROCK SOCK JOINTING

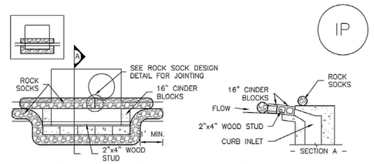
GRADATION TABLE	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
	NO. 4
2"	100
1½"	90 – 100
1"	20 – 55
¾"	0 – 15
⅜"	0 – 5
MATCHES SPECIFICATIONS FOR NO. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M43. ALL ROCK SHALL BE FRACTURED FACE. ALL SIDES.	

ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1½" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1½" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF ½", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS–1. ROCK SOCK PERIMETER CONTROL

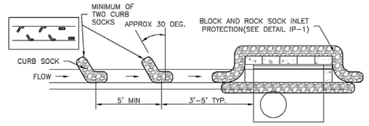
SC-6 Inlet Protection (IP)



IP–1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
3. GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

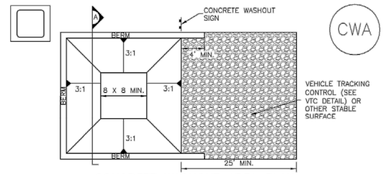


IP–2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

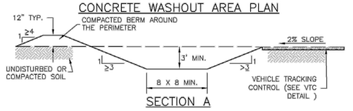
CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON–GRADE INLETS.

Concrete Washout Area (CWA) MM-1



CONCRETE WASHOUT AREA PLAN



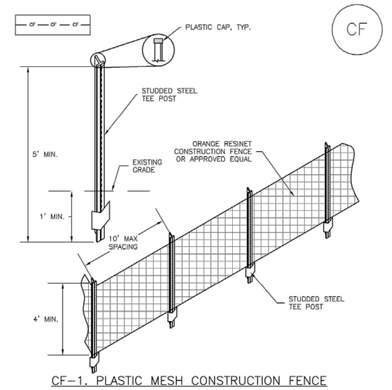
SECTION A

CWA–1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

SM-3 Construction Fence (CF)



CF–1. PLASTIC MESH CONSTRUCTION FENCE

CONSTRUCTION FENCE INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   –LOCATION OF CONSTRUCTION FENCE.
2. CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR–GRADE MATERIAL THAT IS AT LEAST 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.
4. STUDDED STEEL TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. MAXIMUM SPACING FOR STEEL TEE POSTS SHALL BE 10'.
5. CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND BOTTOM OF EACH POST.

Good Housekeeping Practices (GH) MM-3

Description

Implement construction site good housekeeping practices to prevent pollution associated with solid, liquid and hazardous construction-related materials and wastes. Stormwater Management Plans (SWMPs) should clearly specify BMPs including these good housekeeping practices:

- Provide for waste management.
- Establish proper building material staging areas.
- Designate paint and concrete washout areas.
- Establish proper equipment/vehicle fueling and maintenance practices.
- Control equipment/vehicle washing and allowable non-stormwater discharges.
- Develop a spill prevention and response plan.

Acknowledgement: This Fact Sheet is based directly on EPA guidance provided in *Developing Your Stormwater Pollution Prevent Plan* (EPA 2007).

Photographs GH-1 and GH-2. Proper materials storage and secondary containment for fuel tanks are important good housekeeping practices. Photos courtesy of CDOT and City of Aurora.

Appropriate Uses

Good housekeeping practices are necessary at all construction sites.

Design and Installation

The following principles and actions should be addressed in SWMPs:

- **Provide for Waste Management.** Implement management procedures and practices to prevent or reduce the exposure and transport of pollutants in stormwater from solid, liquid and sanitary wastes that will be generated at the site. Practices such as trash disposal, recycling, proper material handling, and cleanup measures can reduce the potential for stormwater runoff to pick up construction site wastes and discharge them to surface waters. Implement a comprehensive set of waste-management practices for hazardous or toxic materials, such as paints, solvents, petroleum products, pesticides, wood preservatives, acids, roofing tar, and other materials. Practices should include storage, handling, inventory, and cleanup procedures, in case of spills. Specific practices that should be considered include:

Solid or Construction Waste

- Designate trash and bulk waste-collection areas on-site.

Good Housekeeping	
Functions	
Erosion Control	No
Sediment Control	No
Site/Material Management	Yes

MM-3 Good Housekeeping Practices (GH)

- Recycle materials whenever possible (e.g., paper, wood, concrete, oil).
- Segregate and provide proper disposal options for hazardous material wastes.
- Clean up litter and debris from the construction site daily.
- Locate waste-collection areas away from streets, gutters, watercourses, and storm drains. Waste-collection areas (dumpsters, and such) are often best located near construction site entrances to minimize traffic on disturbed soils. Consider secondary containment around waste collection areas to minimize the likelihood of contaminated discharges.
- Empty waste containers before they are full and overflowing.

Sanitary and Septic Waste

- Provide convenient, well-maintained, and properly located toilet facilities on-site.
- Locate toilet facilities away from storm drain inlets and waterways to prevent accidental spills and contamination of stormwater.
- Maintain clean restroom facilities and empty portable toilets regularly.
- Where possible, provide secondary containment pans under portable toilets.
- Provide tie-downs or stake-downs for portable toilets.
- Educate employees, subcontractors, and suppliers on locations of facilities.
- Treat or dispose of sanitary and septic waste in accordance with state or local regulations. Do not discharge or bury wastewater at the construction site.
- Inspect facilities for leaks. If found, repair or replace immediately.
- Special care is necessary during maintenance (pump out) to ensure that waste and/or biocide are not spilled on the ground.

Hazardous Materials and Wastes

- Develop and implement employee and subcontractor education, as needed, on hazardous and toxic waste handling, storage, disposal, and cleanup.
- Designate hazardous waste-collection areas on-site.
- Place all hazardous and toxic material wastes in secondary containment.

Photograph GH-3. Locate portable toilet facilities on level surfaces away from waterways and storm drains. Photo courtesy of WWE.

Good Housekeeping Practices (GH) MM-3

- Hazardous waste containers should be inspected to ensure that all containers are labeled properly and that no leaks are present.

- **Establish Proper Building Material Handling and Staging Areas**. The SWMP should include comprehensive handling and management procedures for building materials, especially those that are hazardous or toxic. Paints, solvents, pesticides, fuels and oils, other hazardous materials or building materials that have the potential to contaminate stormwater should be stored indoors or under cover whenever possible or in areas with secondary containment. Secondary containment measures prevent a spill from spreading across the site and may include dikes, berms, curbing, or other containment methods. Secondary containment techniques should also ensure the protection of groundwater. Designate staging areas for activities such as fueling vehicles, mixing paints, plaster, mortar, and other potential pollutants. Designated staging areas enable easier monitoring of the use of materials and clean up of spills. Training employees and subcontractors is essential to the success of this pollution prevention principle. Consider the following specific materials handling and staging practices:
  - Train employees and subcontractors in proper handling and storage practices.
  - Clearly designate site areas for staging and storage with signs and on construction drawings. Staging areas should be located in areas central to the construction site. Segment the staging area into sub-areas designated for vehicles, equipment, or stockpiles. Construction entrances and exits should be clearly marked so that delivery vehicles enter/exit through stabilized areas with vehicle tracking controls (See Vehicle Tracking Control Fact Sheet).
  - Provide storage in accordance with Spill Protection, Control and Countermeasures (SPCC) requirements and plans and provide cover and impermeable perimeter control, as necessary, for hazardous materials and contaminated soils that must be stored on site.
  - Ensure that storage containers are regularly inspected for leaks, corrosion, support or foundation failure, or other signs of deterioration and tested for soundness.
  - Reuse and recycle construction materials when possible.
- **Designate Concrete Washout Areas**. Concrete contractors should be encouraged to use the washout facilities at their own plants or dispatch facilities when feasible; however, concrete washout commonly occurs on construction sites. If it is necessary to provide for concrete washout areas on-site, designate specific washout areas and design facilities to handle anticipated washout water. Washout areas should also be provided for paint and stucco operations. Because washout areas can be a source of pollutants from leaks or spills, care must be taken with regard to their placement and proper use. See the Concrete Washout Area Fact Sheet for detailed guidance.

  Both self-constructed and prefabricated washout containers can fill up quickly when concrete, paint, and stucco work are occurring on large portions of the site. Be sure to check for evidence that contractors are using the washout areas and not dumping materials onto the ground or into drainage facilities. If the washout areas are not being used regularly, consider posting additional signage, relocating the facilities to more convenient locations, or providing training to workers and contractors.

  When concrete, paint, or stucco is part of the construction process, consider these practices which will help prevent contamination of stormwater. Include the locations of these areas and the maintenance and inspection procedures in the SWMP.

MM-3 Good Housekeeping Practices (GH)

- Do not washout concrete trucks or equipment into storm drains, streets, gutters, uncontained areas, or streams. Only use designated washout areas.
- Establish washout areas and advertise their locations with signs. Ensure that signage remains in good repair.
- Provide adequate containment for the amount of wash water that will be used.
- Inspect washout structures daily to detect leaks or tears and to identify when materials need to be removed.
- Dispose of materials properly. The preferred method is to allow the water to evaporate and to recycle the hardened concrete. Full service companies may provide dewatering services and should dispose of wastewater properly. Concrete wash water can be highly polluted. It should not be discharged to any surface water, storm sewer system, or allowed to infiltrate into the ground in the vicinity of waterbodies. Washwater should not be discharged to a sanitary sewer system without first receiving written permission from the system operator.

- **Establish Proper Equipment/Vehicle Fueling and Maintenance Practices**. Create a clearly designated on-site fueling and maintenance area that is clean and dry. The on-site fueling area should have a spill kit, and staff should know how to use it. If possible, conduct vehicle fueling and maintenance activities in a covered area. Consider the following practices to help prevent the discharge of pollutants to stormwater from equipment/vehicle fueling and maintenance. Include the locations of designated fueling and maintenance areas and inspection and maintenance procedures in the SWMP.
  - Train employees and subcontractors in proper fueling procedures (stay with vehicles during fueling, proper use of pumps, emergency shutoff valves, etc.).
  - Inspect on-site vehicles and equipment regularly for leaks, equipment damage, and other service problems.
  - Clearly designate vehicle/equipment service areas away from drainage facilities and watercourses to prevent stormwater run-on and runoff.
  - Use drip pans, drip cloths, or absorbent pads when replacing spent fluids.
  - Collect all spent fluids, store in appropriate labeled containers in the proper storage areas, and recycle fluids whenever possible.
- **Control Equipment/Vehicle Washing and Allowable Non-Stormwater Discharges.** Implement practices to prevent contamination of surface and groundwater from equipment and vehicle wash water. Representative practices include:
  - Educate employees and subcontractors on proper washing procedures.
  - Use off-site washing facilities, when available.
  - Clearly mark the washing areas and inform workers that all washing must occur in this area.
  - Contain wash water and treat it using BMPs. Infiltrate washwater when possible, but maintain separation from drainage paths and waterbodies.

DIVERGE
400 E. SIMPSON, STE120
LAFAYETTE, CO 80026
WWW.DIVERGEHOMES.COM

CIVIL RESOURCES
8308 COLORADO BLVD
SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS		
NO.	DESCRIPTION	DATE

DESIGNED BY: JAB DATE: JUNE 8, 2021
DRAWN BY: CAI SCALE:
CHECKED BY: JAB
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg

DETAILS - EROSION CONTROL 2

811 KNOW WHAT'S BELOW CALL BEFORE YOU DIG

SHEET: C9.9

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Good Housekeeping Practices (GH) MM-3

- Use high-pressure water spray at vehicle washing facilities without detergents. Water alone can remove most dirt adequately.
- Do not conduct other activities, such as vehicle repairs, in the wash area.
- Include the location of the washing facilities and the inspection and maintenance procedures in the SWMP.

- **Develop a Spill Prevention and Response Plan.** Spill prevention and response procedures must be identified in the SWMP. Representative procedures include identifying ways to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and response. The plan should also specify material handling procedures and storage requirements and ensure that clear and concise spill cleanup procedures are provided and posted for areas in which spills may potentially occur. When developing a spill prevention plan, include the following:
  - Note the locations of chemical storage areas, storm drains, tributary drainage areas, surface waterbodies on or near the site, and measures to stop spills from leaving the site.
  - Provide proper handling and safety procedures for each type of waste. Keep Material Safety Data Sheets (MSDSs) for chemical used on site with the SWMP.
  - Establish an education program for employees and subcontractors on the potential hazards to humans and the environment from spills and leaks.
  - Specify how to notify appropriate authorities, such as police and fire departments, hospitals, or municipal sewage treatment facilities to request assistance. Emergency procedures and contact numbers should be provided in the SWMP and posted at storage locations.
  - Describe the procedures, equipment and materials for immediate cleanup of spills and proper disposal.
  - Identify personnel responsible for implementing the plan in the event of a spill. Update the spill prevention plan and clean up materials as changes occur to the types of chemicals stored and used at the facility.

Rough Cut Street Control (RCS) EC-9

Description

Rough cut street controls are rock or earthen berms placed along dirt roadways that are under construction or used for construction access. These temporary berms intercept sheet flow and divert runoff from the roadway, and control erosion by minimizing concentration of flow and reducing runoff velocity.

Photograph RCS-1. Rough cut street controls.

Appropriate Uses

Appropriate uses include:

- Temporary dirt construction roadways that have not received roadbase.
- Roadways under construction that will not be paved within 14 days of final grading, and that have not yet received roadbase.

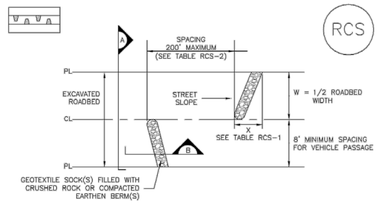
Design and Installation

Rough cut street controls are designed to redirect sheet flow off the dirt roadway to prevent water from concentrating and eroding the soil. These controls consist of runoff barriers that are constructed at intervals along the road. These barriers are installed perpendicular to the longitudinal slope from the outer edge of the roadside swale to the crown of the road. The barriers are positioned alternately from the right and left side of the road to allow construction traffic to pass in the lane not barred. If construction traffic is expected to be congested and a vehicle tracking control has been constructed, rough-cut street controls may be omitted for 400 feet from the entrance. Runoff from the controls should be directed to another stormwater BMP such as a roadside swale with check dams once removed from the roadway. See Detail RCS-1 for additional information.

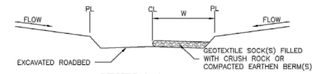
Maintenance and Removal

Inspect street controls for erosion and stability. If rills are forming in the roadway or cutting through the control berms, place the street controls at shorter intervals. If earthen berms are used, periodic recompaction may be necessary. When rock berms are used, repair and/or replace as necessary when damaged. Street controls may be removed 14 days prior to road surfacing and paving.

Rough Cut Street Control	
Functions	
Erosion Control	Yes
Sediment Control	Moderate
Site/Material Management	No



ROUGH CUT STREET CONTROL PLAN



SECTION A

SECTION B

TABLE RCS-1

W (FT)	X (FT)
20-30	5
31-40	7
41-50	9
51-60	10.5
61-70	12

TABLE RCS-2

LONGITUDINAL STREET SLOPE (%)	SPACING (FT)
<2	NOT TYPICALLY NEEDED
2	200
3	200
4	150
5	100
6	50
7	25
8	25

RCS-1. ROUGH CUT STREET CONTROL

Rough Cut Street Control (RCS) EC-9

ROUGH CUT STREET CONTROL INSTALLATION NOTES

1. SEE PLAN VIEW FOR
   →LOCATION OF ROUGH CUT STREET CONTROL MEASURES.

2. ROUGH CUT STREET CONTROL SHALL BE INSTALLED AFTER A ROAD HAS BEEN CUT IN, AND WILL NOT BE PAVED FOR MORE THAN 14 DAYS OR FOR TEMPORARY CONSTRUCTION ROADS THAT HAVE NOT RECEIVED ROAD BASE.

ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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SUITE 200
FIRESTONE, CO 80504
303.833.1416
WWW.CIVILRESOURCES.COM

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO.	DESCRIPTION	DATE

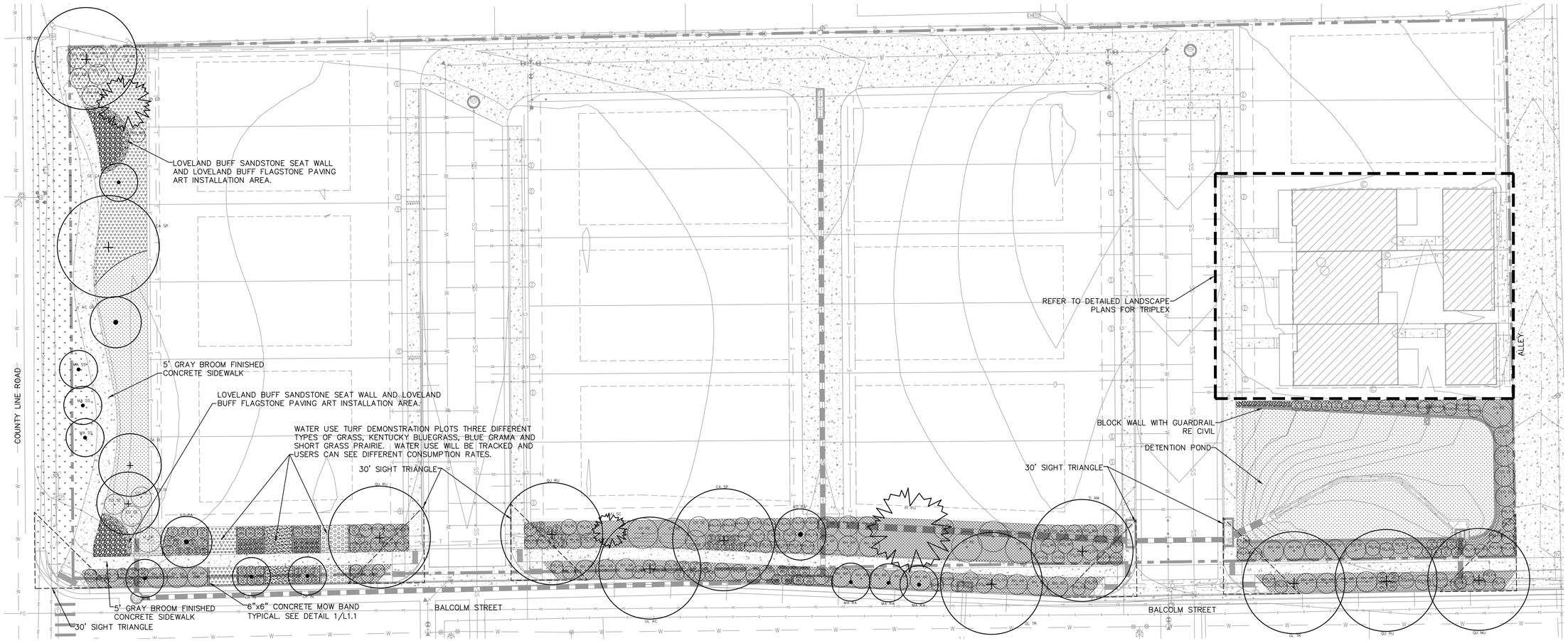
DESIGNED BY: JAB
DRAWN BY: CAI
CHECKED BY: JAB
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME: 31300101_Erie_DETAILS1.dwg

DETAILS - EROSION CONTROL 3

SHEET: C9.10

811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG

J:\Divergé Homes - 31301\101 01 Erie Old Town\Drawings\SHEET\SITE PLAN SET\31300101_Erie_DETAILS1.dwg



1 LANDSCAPE PLAN

Scale: 1"=20'

0 20 40 60

SCALE 1"=20'-0"

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREES/FLOWERING TREES
- EVERGREEN TREES
- SHRUBS, PERENNIALS AND GRASSES
- SNAP CUT LOVELAND BUFF SANDSTONE SEAT BOULDERS
- PLANTING BEDS WITH SHREDDED WESTERN RED CEDAR WOOD MULCH (GORILLA HAIR) 8,331 SF
- FLAGSTONE PAVING 360 SF
- BLUEGRASS SOD 196 SF
- BLUE GRAMA NATIVE GRASS SEED. PREPARE ALL SEED AREA WITH 3 CUBIC YARDS OF A1 ORGANICS BIOCOMP COMPOST. TILL IN TO THE AREA AT A DEPTH OF 9". APPLY SEED AT A RATE OF 4 POUNDS OF PURE LIVE BLUE GRAMA SEED PER 1,000 SQUARE FEET. 1,784 SF
- WETLAND SEED. ARKANSAS VALLEY SEED COMPANY WETLAND /DETENTION SEED MIX INSTALL AT A RATE OF 10 LBS/ACRE. 6,454 SF
- MIXED GRASS PRAIRIE NATIVE SEED. SEE TABLE 1 SHEET L1.1. 3,622 SF
- SHORT GRASS PRAIRIE NATIVE SEED. SEE TABLE 2 SHEET L1.1 196 SF

REQUIREMENT REFERENCE	REQUIREMENT	QUANTITY	LANDSCAPE AREA REQUIRED	LANDSCAPE AREA PROVIDED	TREES REQUIRED	TREES PROVIDED	SHRUBS REQUIRED	SHRUBS PROVIDED
10-6-4 E 1a	1 TREE PER 40 LF OF STREET FRONTAGE							
	COUNTY LINE ROAD	212 LF			5	10		
	BALCOLM STREET	580 LF			15	19		
10-6-4 E 7b	15% GROSS SITE LANDSCAPE/NATIVE	118,835 SF	17,835 SF	20,945 SF				
10-6-4 E 7c1	1 TREE PER 1000 SF OF LANDSCAPE INCLUDES STREET FRONTAGE TREES	20,945 SF			21	29		
10-6-4 E 7c2	1 SHRUB PER 150 SF OF LANDSCAPE INCLUDES STREET FRONTAGE TREES	20,945 SF					140	292

NOTE: THERE IN NO EXISTING VEGETATION ON SITE.

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stewart ARCHITECTURE
1132 JEFFERSON AVENUE
LOUISVILLE, CO 80027
303.665.6668

Munding Design, LLC
Irrigation Design and Landscape Architecture
233 Saint Ida Circle
Lafayette, Colorado 80026
720-273-3884

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

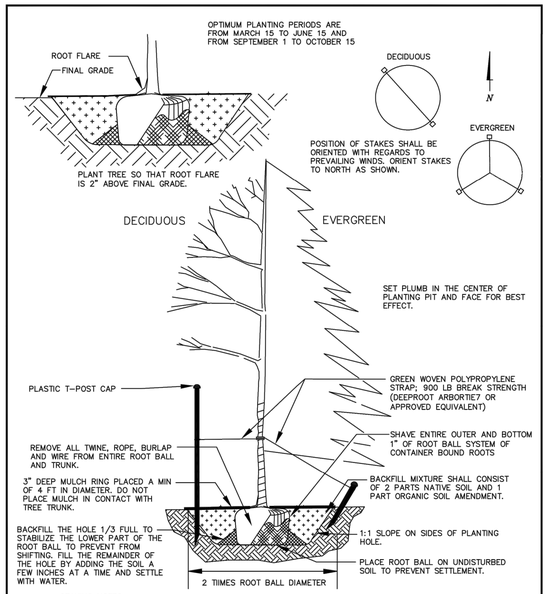
REVISIONS

NO.	DESCRIPTION	DATE

DESIGNED BY: KJM
DRAWN BY: KJM
CHECKED BY: KJM
DATE: JUNE 8, 2021
SCALE:
JOB NO.: 31300101
DWG NAME:

LANDSCAPE PLAN

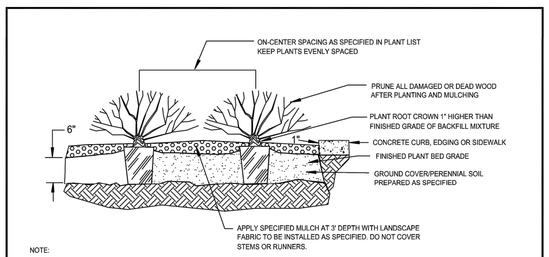
SHEET: L1.0



STAKING NOTES:
DECIDUOUS TREES SHALL BE STAKED USING TWO(2) SIX(6) FOOT STEEL T-POSTS DRIVEN PERPENDICULAR TO THE TREE AT 180 DEGREES.
EVERGREEN TREES SHALL BE STAKED USING THREE(3) TWO(2) FOOT STAKES DRIVEN AT 120 DEGREES.
ALL STAKES SHALL BE DRIVEN OUTSIDE OF ROOTBALL AND IN UNDISTURBED SOIL.

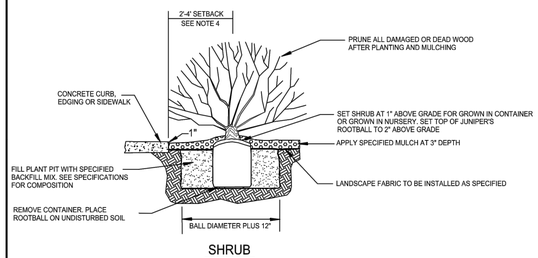
The Town of ERIE COLORADO

DRAWING TITLE: TREE PLANTING DETAIL
DRAWING NUMBER: P20A
DRAWN BY: D. JENKINS APPROVED BY: G. HEGNER DATE: 1/2014



NOTE:
1. HOLD MULCH GRADE 1" BELOW EDGE OF WALK, EDGING OR CURB. HOLD BACK PLANTS 12-18" FROM EDGES.
2. REMOVE ALL CONTAINERS & POTS PRIOR TO PLANTING.

GROUNDCOVER / PERENNIAL

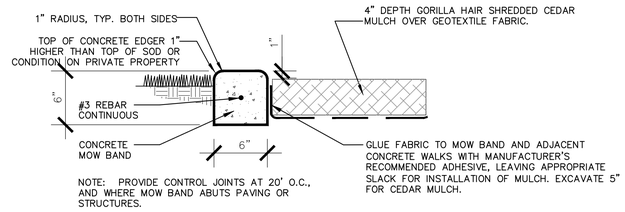


SHRUB

NOTE:
1. DO NOT PLANT ANY PLANT WITH ROOTBALL NOT IN CONFORMANCE WITH COLORADO NURSERY ACT REQUIREMENTS
2. HOLD MULCH GRADE 1" BELOW EDGE OF WALK, EDGING OR CURB
3. SHRUBS NOT PLANTED WITHIN A MULCHED BED REQUIRE A 4" HIGH EARTH SAUCER TO BE CONSTRUCTED CONTAINING A 1' RADIUS AND 3' DEEP MULCH COLLAR.
4. USE A 2' TO 4' SETBACK DEPENDING ON SPECIES. SETBACK TO ACCOMODATE MATURE SPREAD OF SPECIES TO PREVENT OVERHANG.
5. REMOVE ALL CONTAINERS & POTS PRIOR TO PLANTING.

The Town of ERIE COLORADO

DRAWING TITLE: SHRUB & GROUNDCOVER/ PERENNIAL PLANTING DETAIL
DRAWING NUMBER: P20B
DRAWN BY: D. JENKINS APPROVED BY: G. BEHLEN DATE: 01/2006



NOTE: PROVIDE CONTROL JOINTS AT 20' O.C., AND WHERE MOW BAND ABUTS PAVING OR STRUCTURES.

1 CONCRETE MOW BAND, 6"x6"

NOT TO SCALE

LANDSCAPING SHALL BE PLANTED AND MAINTAINED IN A NEAT, CLEAN AND HEALTHY CONDITION BY THE OWNER. THIS SHALL INCLUDE PROPER PRUNING, MOWING AND AERATION OF LAWNS, REPLACEMENT OF MULCH, WEEDING, REMOVAL OF LITTER AND THE REGULAR WATERING OF ALL PLANTINGS. IRRIGATION SHALL BE MAINTAINED TO MAXIMIZE WATER CONSUMPTION. SHOULD ANY PLANT MATERIAL DIE, THE OWNER, SUCCESSOR, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF PLANT(S) WITHIN ONE PLANTING SEASON. REPLACEMENT OF PLANT MATERIALS SHALL OCCUR AT THE FOLLOWING RATE:

TYPE	PLANT REPLACEMENT WITHIN	
	1 YEAR	2+ YEARS
TREE-DECIDUOUS	INCREASE CALIPER BY 1"	INCREASE CALIPER BY 1.5"
TREE-CONIFEROUS	INCREASE HEIGHT BY 1.5'	INCREASE HEIGHT BY 2'
SHRUB	REPLACE WITH PLANTS OF AT LEAST 1/2 MATURE SIZE	REPLACE WITH PLANTS OF AT LEAST 1/2 MATURE SIZE

"UPON COMPLETION OF THE PROJECT, DEVELOPER / LANDSCAPE ARCHITECT TO PROVIDE TOWN OF ERIE A FULL SET OF AS-BUILT DRAWINGS OF ALL LANDSCAPE AND IRRIGATION, ON A CD SET INCLUDING LATEST VERSION OF PDF AND AUTO-CAD."

LANDSCAPE NOTES

1. PROTECTION OF EXISTING LANDSCAPING TO REMAIN IS NOTED ON SHEET SP 27.
2. ALL NEW SOD AREAS SHALL RECEIVE 5 CU. YDS. OF COMPOST PER 1000 SF TILLED TO A DEPTH OF 6"-12". ALL AREAS SHALL THEN BE GRADED TO A UNIFORMLY SMOOTH GRADE. FOLLOW GRADING PLAN PROVIDED BY CIVIL ENGINEER.
3. ALL NEW SOD AREAS SHALL BE SODDED WITH DROUGHT TOLERANT TURF TYPE TALL FESCUE SOD.
4. EDGING SHALL BE INSTALLED BETWEEN ALL TURF AREAS AND SHRUB BED AREAS. EDGING SHALL BE 3/16"X6" INCH METAL ROLL TOP PAINTED GREEN.
5. ALL TREES AND SHRUBS SHALL BE PLANTED AND STAKED ACCORDING TO TOWN OF ERIE'S SPECIFICATIONS (SEE SHEET SP 25).
6. SHRUB BEDS AS SHOWN ON THE PLAN SHALL RECEIVE A 4" LAYER OF NATURAL COLOR SHREDDED CEDAR WOOD MULCH WITH NO FABRIC UNDERLAY (SEE HATCHING ON LANDSCAPE PLAN)..
7. REQUIRED PLANT MATERIALS SHALL BE GROWN IN A NURSERY IN ACCORDANCE WITH PROPER HORTICULTURAL PRACTICE. PLANTS SHALL BE HEALTHY, WELL-BRANCHED VIGOROUS STOCK WITH A GROWTH HABIT NORMAL TO THE SPECIES AND VARIETY, AND FREE OF DISEASES, INSECTS AND INJURIES.

IRRIGATION NOTES:

1. EACH VALVE SHALL IRRIGATE A LANDSCAPE WITH SIMILAR SITE, SLOPE AND SOIL CONDITIONS AND PLANT MATERIAL WITH SIMILAR HYDROZONE WATERING NEEDS.
2. PROPER IRRIGATION EQUIPMENT, SCHEDULES, AND REPEAT CYCLES SHALL BE USED TO MINIMIZE RUNOFF.
3. SOD, SHRUB BEDS AND PERENNIAL BEDS SHALL EACH BE PLACED ON SEPARATE ZONES.
4. SOD AND SEED SHALL BE IRRIGATED WITH ROTOR AND/OR POP-UP SPRAY HEADS. SHRUB/TREES SHALL BE DRIP IRRIGATED. PERENNIALS SHALL BE IRRIGATED WITH LOW VOLUME POP-UP BUBBLER TYPE SPRAY HEADS.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED TO PROVIDE PEAK SEASON IRRIGATION WITHIN A SIX NIGHT, SIX HOUR PER NIGHT WATERING PERIOD.
6. IRRIGATION SYSTEM SHALL INCLUDE AN ELECTRIC AUTOMATIC CONTROLLER WITH MULTIPLE PROGRAMS AND MULTIPLE REPEAT AND REST CYCLE CAPABILITIES AND A FLEXIBLE CALENDAR PROGRAM. CONTROLLER SHALL BE CAPABLE OF TEMPORARILY SHUTTING DOWN THE SYSTEM BY UTILIZING INTERNAL/EXTERNAL OPTIONS SUCH AS RAIN AND WIND SENSORS AND HAVE THE ABILITY TO ADJUST RUN TIMES BASED ON A PERCENTAGE OF MAXIMUM EVAPOTRANSPIRATION RATE.

MAINTENANCE NOTES

1. LANDSCAPES SHALL BE MAINTAINED TO ENSURE WATER EFFICIENCY. A REGULAR MAINTENANCE SCHEDULE SHALL INCLUDE BUT NOT BE LIMITED TO CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT; RESETTING THE AUTOMATIC CONTROLLER; AERATING AND DE-THATCHING TURF AREAS (ONLY IF NEEDED); REPLENISHING MULCH; FERTILIZING; PRUNING; AND WEEDING IN ALL LANDSCAPED AREAS.
2. THE PROPERTY OWNER(S) SHALL MAINTAIN LANDSCAPE IMPROVEMENTS IN GOOD HEALTH AND ATTRACTIVE CONDITION.
3. THE PROPERTY OWNER(S) SHALL BE RESPONSIBLE FOR MAINTENANCE OF LANDSCAPE IN THE PUBLIC RIGHT OF WAY ADJACENT TO THE PROPERTY.

NOTE
IF TRANSFORMERS, GROUND MOUNTED HVAC EQUIPMENT, UTILITY PEDESTALS, ETC. ARE NOT SHOWN ON THE SITE IMPROVEMENT PLAN, ADDITIONAL LANDSCAPING/SCREENING MAY BE REQUIRED BASED UPON FIELD CONDITIONS DISCOVERED VIA THE SITE INSPECTION BY STAFF, MADE PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY, OR FINAL INSPECTION AS APPLICABLE.

THE FOLLOWING SEED SPECIFICATIONS ARE EXCERPTED FROM THE TOWN OF ERIE PARKS STANDARDS AND SPECIFICATIONS. WHERE DISCREPANCY OCCURS, PARKS STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE.

The area to be seeded shall be cultivated to a depth of six (6) inches so as to free the site of weeds and other plants that may interfere with turf establishment. All stones, sticks, and debris brought to the surface over one and one-half inches (1.5") diameter will be removed from the site.
Materials shall be applied when the surface is within two (2) percent of final grade. No organic material containing manure shall be stockpiled on the site for more than eight (8) hours before it is incorporated into the soil. After tilling, the areas to be seeded will be raked, graded, and rolled to the desired finished grades according to the grading plan within a tolerance of one-tenth (0.1) foot, with gently sloping surfaces to adequately drain all surface water run-off. The finished surface will be even and uniform, and no dirt clumps or other debris larger than one and ½" inches (1.5") in diameter will appear on the surface. The finished surface will be on an even plane with all sidewalks, curbs, or borders. Slopes will not be greater than four horizontal to one vertical (4:1) for all seeded areas. On sloping ground, the final harrowing or disking operation will be on the general contour.
Seeded areas will receive the specified Class 1 organic material at the rate of three (3) cubic yards per one thousand (1000) square feet.
Seed shall be applied using a native grass drill seeder equipped with a seed box agitator and depth bands. Seed will be sown to a depth of one-quarter (¼) to one-half (½) inch into a properly prepared seedbed. On sloping land, the seed shall be applied following the general contour. In areas where drill seeding is not possible such as corners, near fences, along walkways, or around posts or boxes associated with electric, gas, irrigation installations or other similar situations, broadcast seeding may be substituted. No hydro seeding shall be permitted, except in wetland seeding areas. When using the broadcast method, the seeding area must be decompacted and harrowed after seeding, followed by mulching.
Seeded areas will be mulched with twenty-five hundred (2,500) pounds per acre hydromulch immediately following seeding. Hydromulch must include one hundred and fifty (150) pounds per acre organic tackifier.
Remove all hydromulch from all plant materials, fences, concrete and other areas except for seed bed.
All erosion control blankets shall conform to the Erosion Control Technology Councils "Standard Specifications for Rolled Erosion Control Products". Generally, Town-owned, Town-maintained projects will require a "short term" blanket, with up to 12 month functional longevity. Other duration products and longevities may be required for specific projects. All erosion control blanket samples must be approved by the Parks & Recreation Director or designee prior to their use.

SEED WILL BE FRESH, CLEAN, PURE LIVE SEED EQUAL IN QUALITY TO THE STANDARDS FOR "CERTIFIED SEED".

TABLE 1. MIXED GRASS PRAIRIE NATIVE SEED MIXTURE: FOR USE IN OPEN SPACE NATIVE SEEDING AT LEAST 10 FEET AWAY FROM ROAD AND TRAIL EDGES. THIS MIXTURE IS FOR GENERAL USAGE, IS DOMINATED BY SHORT TO MID SIZED NATIVE PRAIRIE GRASSES (6-18 INCHES IN HEIGHT), BUT INCLUDES A FEW TALLER SPECIES (UP TO 36 INCHES) AND A LIMITED AMOUNT OF NATIVE WILDFLOWERS (IDENTIFIED WITH THE *, BELOW). BEST FOR USE IN LARGER OPEN SPACE AREAS. BE SURE TO OVER SEED ANY SWALES OR MOIST AREAS WITHIN THIS SEEDING TYPE WITH THE MOIST SWALE SEED MIXTURE (TABLE 3). THIS MIXTURE MAY BE USED BETWEEN OCTOBER 15TH AND MARCH 30TH ONLY.

COMMON NAME	SCIENTIFIC NAME	VARIETY	OZ/ACRE	PLS LBS/ACRE
Buffalo grass	*Buchloe dactyloides*	Native		3
Sideoats grama	*Bouteloua curtipendula*	Butte		5
Prairie sandreed	*Calamovilfa longifolia*	Goshen		1
Blue grama	*Chondrosum gracile*	Lovington		3
Western wheatgrass	*Pascopyrum smithii*	Arriba		5
Little bluestem	*Schizachyrium scoparium*	Pastura		4
Alkali sacaton	*Sporobolus airoides*	Common		1
Sand dropseed	*Sporobolus cryptandrus*	Common		1
Switchgrass	*Panicum virgatum*	Blackwell		5
Fringed sage*	*Artemisia frigida*	Common	1	
Purple prairie clover*	*Dalea purpurea*	Common	6	
Blanketflower*	*Gaillardia aristata*	Common	6	
Gayfeather*	*Liatris punctata*	Common	4	
COMMON NAME	SCIENTIFIC NAME	VARIETY	OZ/ACRE	PLS LBS/ACRE
Blue flax*	*Linum perenne*	Common	3	
Tansy aster*	*Machaeranthera tanacetifolia*	Common	3	
Prairie coneflower*	*Ratibida columnifera*	Common	3	
OUNCES			26	1.625
SEEDING RATE POUNDS PLS/ACRE				29.625

TABLE 2. SHORTGRASS PRAIRIE NATIVE SEED MIXTURE: FOR USE IN OPEN SPACE NATIVE SEEDING LESS THAN 10 FEET FROM ROAD AND TRAIL EDGES. THIS MIXTURE IS FOR SPECIFIC USAGE NEAR TRAILS OR WHERE SHORTER GRASSES ARE DESIRED (SUCH AS SMALLER PARK SITES). IT IS DOMINATED BY SHORT TO MID SIZED NATIVE PRAIRIE GRASSES (6-18 INCHES IN HEIGHT), BUT INCLUDES A FEW NATIVE WILDFLOWERS (IDENTIFIED WITH THE *, BELOW). BEST FOR USE ALONG ROADS AND TRAILS AND IN SMALLER NATIVE SEEDED PARK AREAS. BE SURE TO OVER SEED ANY SWALES OR MOIST AREAS WITHIN THIS SEEDING TYPE WITH THE MOIST SWALE SEED MIXTURE (TABLE 3). THIS MIXTURE MAY BE USED BETWEEN OCTOBER 15TH AND MARCH 30TH ONLY.

COMMON NAME	SCIENTIFIC NAME	VARIETY	OZ/ACRE	PLS LBS/ACRE
Buffalograss	*Buchloe dactyloides*	Native		14
Blue grama	*Chondrosum gracile*	Lovington		12
Sand dropseed	*Sporobolus cryptandrus*	Common		4
Fringed sage*	*Artemisia frigida*	Common	1	
Purple prairie clover*	*Dalea purpurea*	Common	4	
Gayfeather*	*Liatris punctata*	Common	4	
Tansy aster*	*Machaeranthera tanacetifolia*	Common	3	
OUNCES			12	0.75
SEEDING RATE POUNDS PLS/ACRE				30.75

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Lafayette, Colorado 80026
720-273-3884

DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO	DESCRIPTION	DATE

DESIGNED BY: KJM DATE: JUNE 8, 2021
DRAWN BY: KJM SCALE:
CHECKED BY: KJM
JOB NO.: 31300101
DWG NAME:

LANDSCAPE NOTES AND DETAILS

SHEET: L1.1

PLANT SCHEDULE

SYMBOL	Botanical Name COMMON NAME	SIZE	QTY
	DECIDUOUS TREES:		
TI AM	Tilia americana AMERICAN LINDEN	2–1/2" B&B	1
CA SP	Catalpa speciosa WESTERN CATALPA	2 1/2" B&B	2
CE OC	Celtis occidentalis WESTERN HACKBERRY	2 1/2" B&B	1
GL TR	Gleditsia triacanthos inermis 'Shademaster' SHADEMASTER HONEYLOCUST	2 1/2" B&B	2
QU RU	Quercus rubra NORTHERN RED OAK	2 1/2" B&B	3
UL AC	Ulmus accolade ACCOLADE ELM	2 1/2" B&B	1
QU MU	Quercus muehlenbergii CHINKAPIN OAK	2 1/2" B&B	1
TA DI	Taxodium distichum BALD CYPRESS	2 1/2" B&B	2
	EVERGREEN TREES:		
PI ED	Pinus edulis PINYON PINE	8' B&B	1
JU SC	Juniperus scopulorum ONE SEED JUNIPER	6' B&B	1
PI PU	Picea pungens COLORADO SPRUCE	8' B&B	1
	ORNAMENTAL TREES		
CR IN	Crataegus crus–galli 'Inermis' THORNLESS COCKSPUR HAWTHORN	2" B&B	3
AC GR	Acer grandidentatum BIGTOOTH MAPLE	2" B&B	1
MA SS	Malus spp. 'Spring Snow' SPRING SNOW CRABAPPLE	2" B&B	3
MA RA	Malus spp. 'Radient' RADIENT CRABAPPLE	2" B&B	3
CE CA	Cersis canadensis EASTERN REDBUD	2" B&B	1
KO PA	Koelreuteria paniculata GOLDEN RAIN TREE	2" B&B	2
	DECIDUOUS SHRUBS:		
PR PA	Prunus besseyi 'Pawnee Buttes' CREEPING WESTERN SAND CHERRY	#5 Cont.	41
RH AR	Rhus aromatica 'Grow Low' GROW LOW FRAGRANT SUMAC	#5 Cont.	31
RO KN	Rosa x 'Double Knock Out' DOUBLE KNOCK OUT ROSE	#5 Cont.	22
CA CL	Caryopteris x clandonensis BLUE MIST SPIREA	#5 Cont.	38
FA PA	Fallugia paradoxa APACHE PLUME	#5 Cont.	8
RO WO	Rosa woodsii NATIVE PINK ROSE	#5 Cont.	7
SY CH	Symphoricarpos x chenaultii HANCOCK CORALBERRY	#5 Cont.	14
SY RE	Syringa reticulata COMMON LILAC	#5 Cont.	7
CO AP	Cotoneaster apiculata CRANBERRY COTONEASTER	#5 Cont.	8
CO DI	Cotoneaster divaricata SPREADING COTONEASTER	#5 Cont.	6
CO SE	Cornus sericea 'Bailey' RED TWIG DOGWOOD	#5 Cont.	6
RI AL	Ribes alpinum ALPINE CURRENT	#5 Cont.	9
FO PU	Forestiera pubescens var. pubescens NEW MEXICO PRIVET	#5 Cont.	1
SA AR	Salix arenaria CREPING SILVER WILLOW	#5 Cont.	1
BU DA	Buddleia davidii PURBLE BUTTERFLY BUSH	#5 Cont.	10
MA AQ	Mahonia aquifolium OREGON GRAPE HOLLY	#5 Cont.	5
VI OP	Viburnum opulus 'Roseum' SNOWBALL VIBURNUM	#5 Cont.	1
VI CA	Viburnum carlesii KOREAN SPICE VIBURNUM	#5 Cont.	5
	GRASSES:		
BO GR	Bouteloua gracillis 'Blond Ambition' BLOND AMBITION BLUE GRAMA GRASS	1 GAL. spaced 3' o.c.	15
HE SE	Helictortrichon sempevirens BLUE AVENA GRASS	1 GAL. spaced 3' o.c.	6
	PERENNIALS:		
LA AN	Lavandula angustifolia 'Munstead' ENGLISH LAVENDER	1 GAL. spaced 2' o.c.	26
EC PU	Echinacea purpurea PURPLE CONEFLOWER	1 GAL. spaced 2' o.c.	15
AC MI	Achillea millefolium COMMON WHITE YARROW	1 GAL. spaced 3' o.c.	8

NOTE: IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN GRAPHIC AND THE LANDSCAPE LEGEND, THE PLANT MATERIAL QUANTITY AS DETERMINED BY THE PLAN GRAPHIC SHALL TAKE PRECEDENCE.

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DIVERGE
ERIE JUNCTION
CONSTRUCTION PLANS

REVISIONS

NO	DESCRIPTION	DATE

DESIGNED BY: KJM
DRAWN BY: KJM
CHECKED BY: KJM
JOB NO.: 31300101
DWG NAME:
DATE: JUNE 8, 2021
SCALE:

LANDSCAPE PLANT LIST

SHEET:
L1.2

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	MP ROTATOR SPRINKLER: HUNTER PROS-06-PRS40-CV MP1000 NOZZLE PRESSURE: 40 PSI RADIUS: 10-14 FEET FLOW (GPM): Q - 0.19 H - 0.37 F - 0.75 6"POP UP HEIGHT Precip. rate (in/hr): 0.40
	MP ROTATOR SPRINKLER: HUNTER PROS-06-PRS40-CV MP2000 NOZZLE PRESSURE: 40 PSI RADIUS: 13-19 FEET FLOW (GPM): Q - 0.40 H - 0.74 F - 1.47 6"POP UP HEIGHT Precip. rate (in/hr): 0.40
	MP ROTATOR SPRINKLER: HUNTER PROS-06-PRS40-CV MP3000 NOZZLE PRESSURE: 40 PSI RADIUS: 22-30 FEET FLOW (GPM): Q - 0.86 H - 1.82 F - 3.64 6"POP UP HEIGHT Precip. rate (in/hr): 0.40
	NOTE: USE 6" POP UP SPRAY OR ROTOR HEADS FOR TURF AREAS AND USE 12" PUP UP SPRAY OR ROTOR HEADS FOR NATIVE SEED AREAS
	BACKFLOW PREVENTER: FEBCO 825 YA ¾" PER DETAIL.
	ZONE CONTROL VALVE: RAINBIRD PESB WITH PRS DIAL, SIZE AS NOTED
	DRIP CONTROL VALVE ASSEMBLY: RAINBIRD XCZ-PRB-100-COM KIT FOR 1" VALVE
	QUICK COUPLER: RAINBIRD 44LRC
	GATE VALVE - RESILIENT WEDGE, SQUARE NUT TOP, LINE SIZE
	EMITTER LATERAL PIPE: UV RADIATION RESISTANT POLYETHYLENE, 1" SIZE (ROUTING IS DIAGRAMMATIC).
	DRIP FLUSH PLUG ASSEMBLY
	MAINLINE PIPE: CLASS 200 PVC 1 ½" BELL END.
	LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC PIPE (1-INCH SIZE UNLESS OTHERWISE INDICATED)
	UNCONNECTED PIPE CROSSING
	UNCONNECTED PIPE CROSSING, TWO DIFFERENT PIPES
	P.O.C. - POINT OF CONNECTION
	CLASS 200 PVC SLEEVING, 4" UNLESS OTHERWISE NOTED
A1 15 1"	INDICATES CONTROLLER AND CONTROLLER STATION NUMBER INDICATES LATERAL DISCHARGE IN GPM INDICATES REMOTE CONTROL VALVE SIZE IN INCHES
M	EXISTING DEDICATED ¾" IRRIGATION WATER METER.
A	NEW CONTROLLER. RAIN BIRD ESP-LXIMV Pro 2-WIRE 25 STATION PEDESTAL MOUNT CONTROLLER. INSTALL GROUNDING AS REQUIRED BY RAINBIRD USING RAINBIRD SURGE PROTECTION DECODER IVM-SD. USE RAINBIRD SENSOR DECODER FOR FLOW SENSOR IVM-SEN. USE RAINBIRD IMV-SOL DECODERS FOR ALL VALVES AND MASTER VALVE.
MV	RAINBIRD 1 1/2" MASTER VALVE MODEL# PESB 1 1/2"
FS	RAINBIRD 1" BRASS FLOW SENSOR MODEL# FS100B
RS	RAINBIRD WIRELESS RAIN/FREEZE SENSOR. MODEL # WRF-RFC

IRRIGATION NOTES

1. Irrigation system is designed to operate off of an existing pressure of 80 psi before the backflow preventer. Contractor to verify pressure PRIOR TO INSTALLATION and notify OWNER of any differences. Design pressure at heads to be as noted in legend.
2. No irrigation work to begin until final grade has been approved.
3. Locate all heads 6" min. from any wall, walk, or curb, and 12" min. from any curb adjacent to parking stalls.
4. Bury all mainlines 24" underground to top of pipe. Bury all laterals 12"-18" underground to top of pipe.
5. Pipes in shared trenches are not allowed.
6. Brand all appropriate box lids with 1" minimum letters with the following abbreviations:
   - QC Quick Coupler
   - GV Gate Valve
   - SV# Section Valve & Corresponding Controller Station #
   - FC Drip Flush Cap
7. All pipe under pavement to be sleeved in 4" minimum PVC class 200 extend 12" beyond each edge of pavement, sloped to drain. Install prior to paving. Sleeve wires separately in 4" min. pipe.
8. All valve wire is to be 14 gauge direct burial Paige 2-wire.
9. Heads will be diagrammatic. Contractor to select and install correct arcs as needed for part circle heads. Adjust radii and arc as necessary for no overspray/backwash onto adjacent buildings, walls, or fences.
10. Plan has been prepared using limited on-site observation. Plan is diagrammatic and does not reflect all equipment, etc., that could be encountered during construction. All tie locations, mainline locations and lateral locations are approximate and shall require exact location by Contractor.
11. Install drip emitters as described below:

1 gallon material	Rain Bird PC-10	1 ea.
5 gallon material	Rain Bird PC-10	2 ea.
Deciduous Trees (1-1/2"-2 1/2" CAL.)	Rain Bird PC-10	3 ea.
Deciduous Trees (3"-4" CAL.)	Rain Bird PC-10	4 ea.
Evergreen Trees (6'-10')	Rain Bird PC-10	2 ea.
Evergreen Trees (11'-14')	Rain Bird PC-10	3 ea.

12. See sheet 12.0 and 12.1 for irrigation details.
13. Install drip rings at all trees in native seed areas per detail 10/12.0.

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DIVERGE
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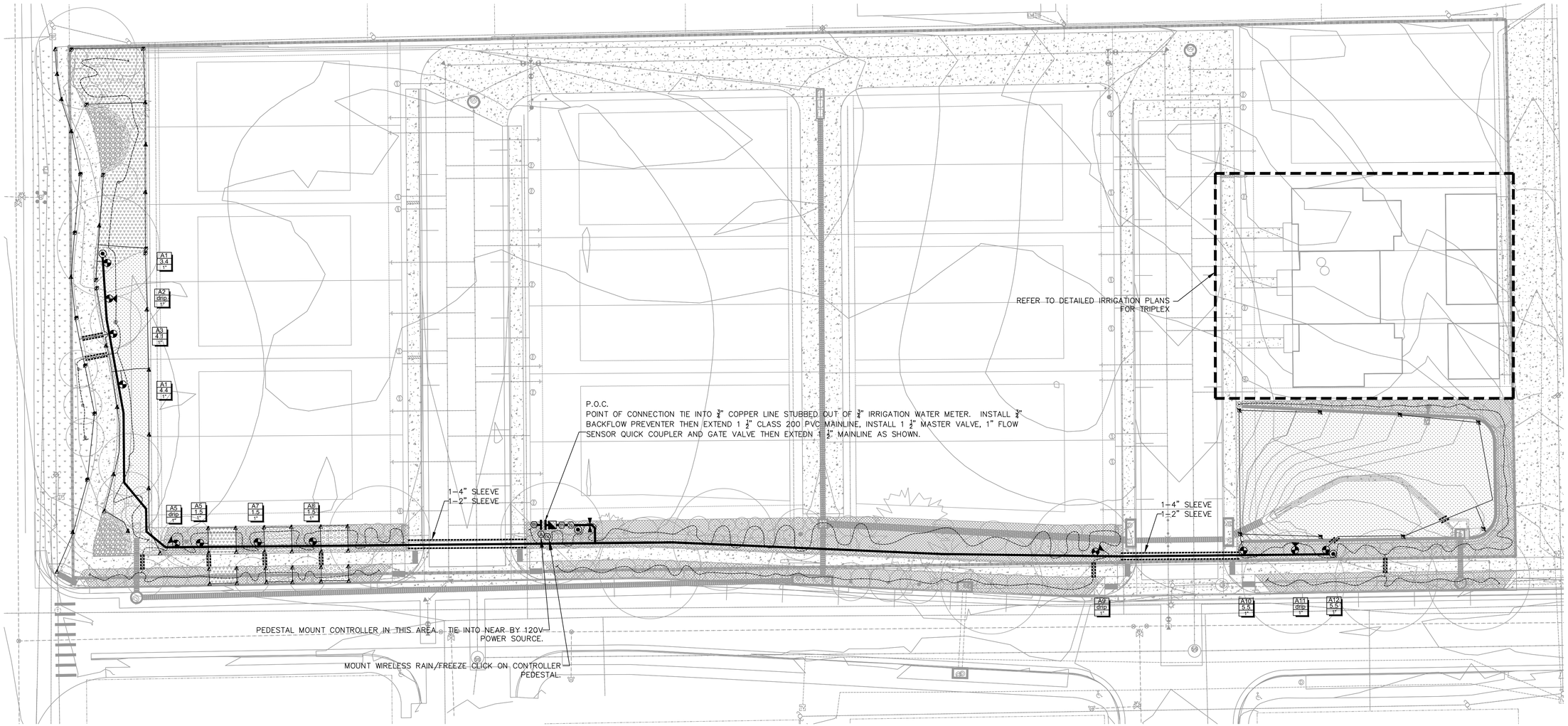
JOB NO.: 31300101
DWG NAME:

IRRIGATION NOTES AND LEGEND

SHEET: I1.0



1 IRRIGATION PLAN

Scale: 1"=20'

0 20 40 60

SCALE 1"=20'-0"

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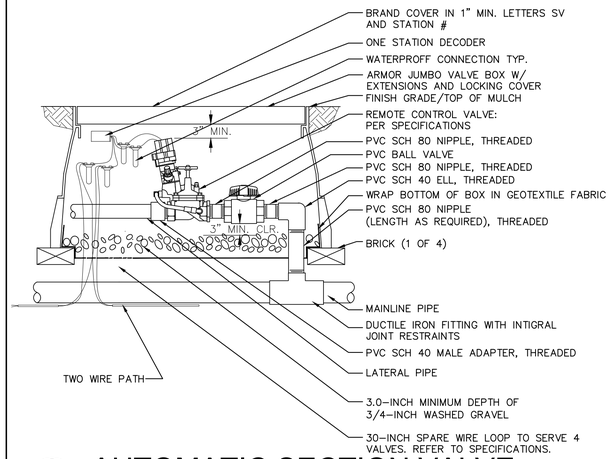
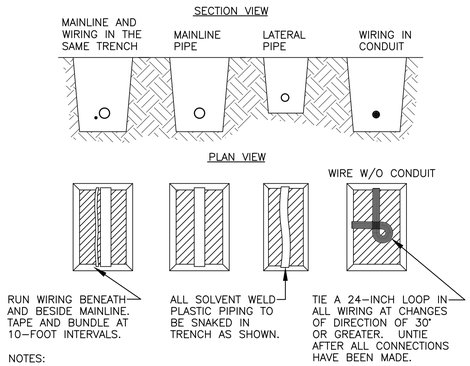


1 AUTOMATIC SECTION VALVE

NOT TO SCALE

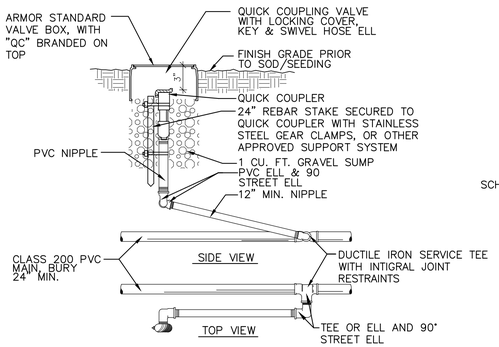


NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.
3. ALL LATERALS TO BE A MINIMUM OF 12" DEPTH. ALL MAINLINES TO BE A MINIMUM OF 24" DEPTH.

2 PIPE AND WIRE TRENCHING

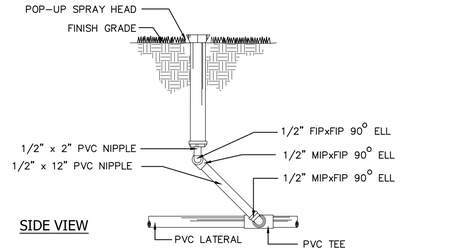
NOT TO SCALE



NOTE: COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL

3 QUICK COUPLER

NOT TO SCALE

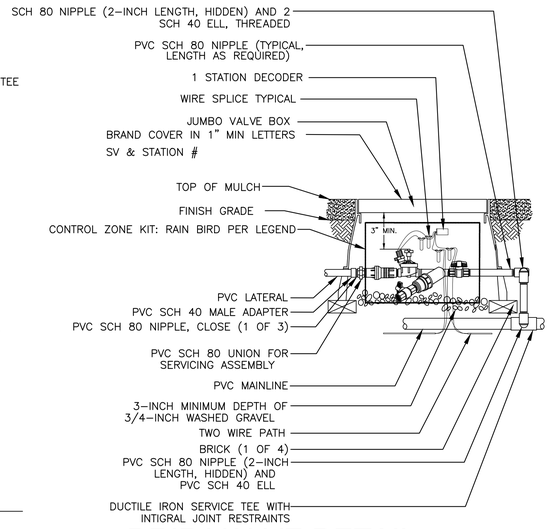


NOTES:
ALL PVC NIPPLES TO BE SCHEDULE 80, COMPACT BACKFILL PER SPECIFICATIONS. FUNNY PIPE MAY BE USED IN PLACE OF SWING JOINT ON SPRAY HEADS.

REFER TO SPECIFICATIONS FOR MATERIALS.

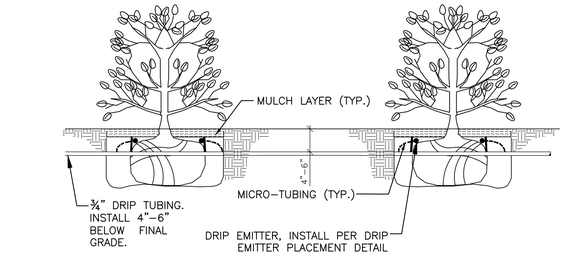
4 POP-UP SPRAY HEAD

NOT TO SCALE



8 DRIP VALVE DETAIL

NOT TO SCALE

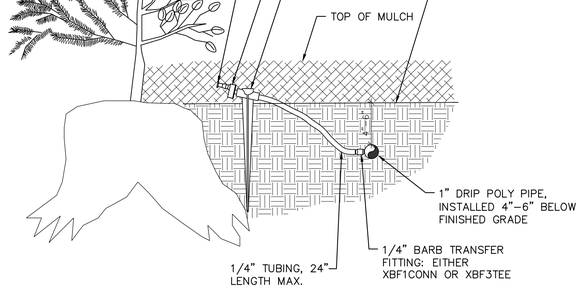


NOTE:

1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
2. INSTALL A 4" THICK CONCRETE PAD BELOW VALVE WITH NO. 4 REBAR WHEN USING PUSH ON TYPE VALVES.

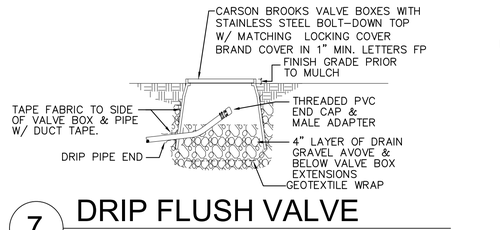
5 ISOLATION GATE VALVE

NOT TO SCALE



6 DRIP EMITTER PLACEMENT

NOT TO SCALE

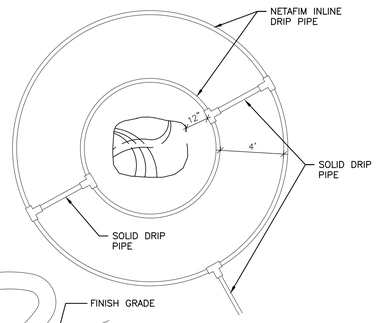


7 DRIP FLUSH VALVE

NOT TO SCALE

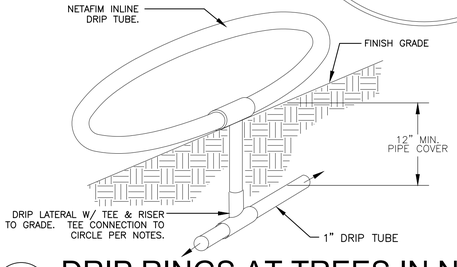
9 SHRUB/TREE EMITTER PLACEMENT

NOT TO SCALE



NOTES:

1. 6" MINIMUM DEPTH OF COVER BELOW MULCH IN PLANTING PITS.
2. 12" MIN. TRENCH DEPTH FOR DRIP LATERALS BETWEEN PLANTINGS. DRIP LATERAL PIPE – SEE APPROVED MATERIALS LIST. (NO 1/4" DISTRIBUTION TUBING ALLOWED AT TREES!).
3. 2 RINGS OF DRIP PIPE TO CIRCLE EACH TREE SHOWN TO RIGHT. STAKE SECURELY AND COVER WITH 6" MIN. DEPTH MULCH.
4. ALL FITTINGS TO BE SECURED WITH STAINLESS COMPRESSION TYPE FITTINGS, OR APPROVED EQUAL.



10 DRIP RINGS AT TREES IN NATIVE SEED

NOT TO SCALE

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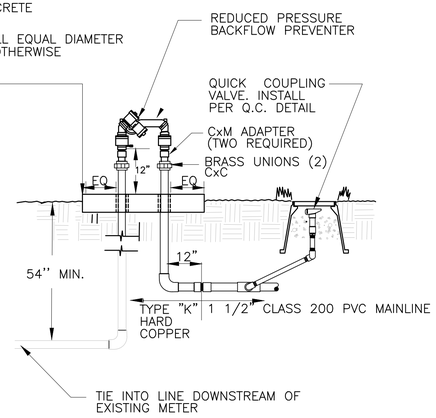
IRRIGATION DETAILS

SHEET: I2.0

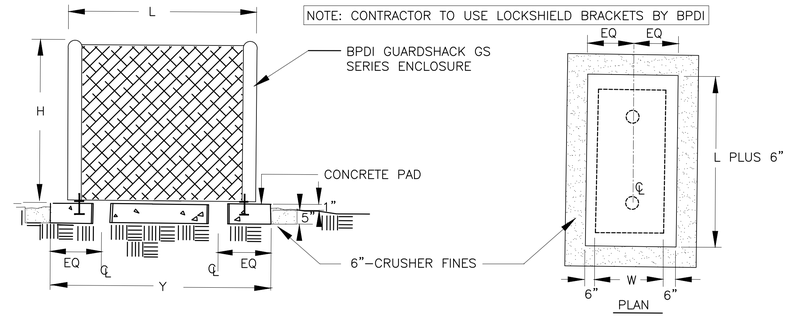
NOTE:
* CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER
* REFER TO ENCLOSURE DETAIL FOR CONCRETE PAD DIMENSIONS
* DIAMETER OF FITTINGS AND TUBING SHALL EQUAL DIAMETER BACKFLOW PREVENTER UNLESS NOTED OTHERWISE



1 BACKFLOW PREVENTER 2" AND SMALLER
NTS

BFP MODEL/SIZE	ENCLOSURE MODEL	W	H	L
FEBCO 825YA – ¾", 1", 1¼", 2"	GS–1	10"	24"	22"

NOTE: CONTRACTOR TO USE LOCKSHIELD BRACKETS BY BPDI



NOTE:
* INSTALL ENCLOSURE ANCHORS AS PER MANUFACTURER'S RECOMMENDATIONS.
* PROVIDE OWNER WITH KEYED PADLOCK FOR ENCLOSURE
* PROVIDE ENCLOSURE WITH STANDARD DARK GREEN POWDER COATED FINISH
* PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1'' LARGER THAN RISER DIAMETER.
* TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE

2 BACKFLOW ENCLOSURE
NTS

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SHEET:
I2.1

ERIE JUNCTION FINAL PLAT

A PARCEL OF LAND, LOCATED IN THE SOUTHWEST QUARTER OF SECTION 18,
TOWNSHIP 1 NORTH, RANGE 68 WEST OF THE 6TH P.M.,
TOWN OF ERIE, COUNTY OF WELD, STATE OF COLORADO
2.73 ACRES – 23 LOTS/4 TRACTS
FP__-__

Dedication and Ownership Statement

KNOW BY ALL MEN THESE PRESENTS THAT THE UNDERSIGNED, BEING ALL THE OWNERS OF CERTAIN LANDS IN THE TOWN OF ERIE, COUNTY OF WELD, STATE OF COLORADO, DESCRIBED AS FOLLOWS:

AN UNPLATTED PARCEL OF LAND AS DESCRIBED IN THE RECORDS OF BOULDER COUNTY ON DECEMBER 17, 2020, AT RECEPTION NO. 4682334, LOCATED IN THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 1 NORTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, TOWN OF ERIE, COUNTY OF WELD, STATE OF COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

CONSIDERING THE WEST LINE OF THE SOUTH-WEST QUARTER OF SECTION 18 TO BEAR NORTH 00°24'01" WEST, A DISTANCE OF 2650.86 FEET BETWEEN A FOUND 3 1/4" BRASS CAP IN MONUMENT BOX, ILLEGIBLE AT THE SOUTHWEST CORNER OF SECTION 18 AND A FOUND 2 1/2" ALUMINUM CAP, ILLEGIBLE IN MONUMENT BOX AT THE WEST 1/4 CORNER OF SECTION 18, WITH ALL BEARINGS CONTAINED HEREIN RELATIVE THERETO.

COMMENCING AT SAID SOUTHWEST CORNER.
THENCE ALONG SAID WEST LINE, NORTH 00°24'01" WEST, A DISTANCE OF 1406.66 FEET;
THENCE DEPARTING SAID WEST LINE, NORTH 89°07'40" EAST, A DISTANCE OF 30.00 FEET, TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF WELD COUNTY ROAD NO. 1, AND THE POINT OF BEGINNING.

THENCE ALONG SAID EAST RIGHT-OF-WAY LINE, NORTH 00°24'01" WEST, A DISTANCE OF 208.93 FEET;
THENCE DEPARTING SAID EAST RIGHT-OF-WAY LINE, AND ALONG THE NORTH LINE OF SAID UNPLATTED PARCEL OF LAND, NORTH 88°54'29" EAST, A DISTANCE OF 564.68 FEET TO A POINT ON THE WEST RIGHT-OF-WAY LINE OF A PLATTED ALLEY;
THENCE ALONG SAID WEST RIGHT-OF-WAY LINE, SOUTH 01°03'01" EAST, A DISTANCE OF 211.09 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE OF BALCOLM STREET;
THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, SOUTH 89°07'40" WEST, A DISTANCE OF 567.06 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINING 118,835 SQ. FT., OR 2.73 ACRES, MORE OR LESS.

HAVE BY THESE PRESENTS LAID OUT, PLATTED AND SUBDIVIDED THE SAME INTO LOTS, BLOCKS, STREETS, TRACTS, AND EASEMENTS AS SHOWN HEREON UNDER THE NAME AND SUBDIVISION OF ERIE JUNCTION FINAL PLAT, THE STREETS, TRACTS, AND EASEMENTS SHOWN HEREON ARE DEDICATED TO THE TOWN AND THE PUBLIC, FOR PUBLIC USES AND PURPOSES AS SHOWN HEREON.

OWNER/LIEN HOLDER:
ERIE JUNCTION, LLC

_____ _____
BY: NICHOLAS JACOBS, MANAGER DATE

ATTEST:

SECRETARY/TREASURER

STATE OF COLORADO)
)SS.
COUNTY OF _____)

ACKNOWLEDGED BEFORE ME THIS _____ DAY OF _____, 20__ BY NICHOLAS JACOBS AS MANAGER OF ERIE JUNCTION, LLC

WITNESS MY HAND AND OFFICIAL SEAL

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES: _____

Vicinity Map
SCALE: 1" = 1000'

Notes

1. OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY FOR LAND TITLE GUARANTEE COMPANY COMMITMENT NUMBER FC25169910-2, DATED NOVEMBER 12, 2020 AT 5:00 P.M., WAS ENTIRELY RELIED UPON FOR RECORDED INFORMATION REGARDING RIGHTS-OF-WAY, EASEMENTS AND ENCUMBRANCES IN THE PREPARATION OF THIS SURVEY. THE PROPERTY SHOWN AND DESCRIBED HEREON IS ALL OF THE PROPERTY DESCRIBED IN SAID TITLE COMMITMENT.
2. ACCORDING TO COLORADO LAW, YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
3. THIS SURVEY IS VALID ONLY IF PRINT HAS SEAL AND SIGNATURE OF SURVEYOR.
4. BASIS OF BEARINGS: GPS DERIVED BEARINGS BASED ON A BEARING OF N00°24'01"W ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 18, BETWEEN A FOUND 3 1/4" BRASS CAP IN MONUMENT BOX, ILLEGIBLE AT THE SOUTHWEST CORNER OF SECTION 18 AND A FOUND 2 1/2" ALUMINUM CAP, ILLEGIBLE IN MONUMENT BOX AT THE WEST 1/4 CORNER OF SECTION 18 AS SHOWN HEREON. COLORADO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD83). ALL BEARINGS SHOWN HEREON ARE RELATIVE THERETO.
5. ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT AND/OR BOUNDARY MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE C.R.S. SEC 18-4-508. WHOEVER WILLFULLY DESTROYS, DEFACES, CHANGES, OR REMOVES TO ANOTHER PLACE ANY SECTION CORNER, QUARTER-SECTION CORNER, OR MEANDER POST, ON ANY GOVERNMENT LINE OF SURVEY, OR WILLFULLY CUTS DOWN ANY WITNESS TREE OR ANY TREE BLAZED TO MARK THE LINE OF A GOVERNMENT SURVEY, OR WILLFULLY DEFACES, CHANGES, OR REMOVES ANY MONUMENT OR BENCH MARK OF ANY GOVERNMENT SURVEY, SHALL BE FINED UNDER THIS TITLE OR IMPRISONED NOT MORE THAN SIX MONTHS, OR BOTH. 18 U.S.C. § 1858.
6. THE DISTANCE MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FOOT.
7. DATES OF FIELDWORK: NOVEMBER 25, 2020
8. THE FOLLOWING DOCUMENTS ARE MENTIONED IN THE ABOVE REFERENCED TITLE DOCUMENT AND APPEAR TO AFFECT THE SUBJECT PROPERTY BUT CANNOT BE SHOWN GRAPHICALLY. THE FOLLOWING LIST CONTAINS THE TITLE DOCUMENT EXCEPTION NUMBER, DATE RECORDED, RECEPTION NUMBER AND/OR BOOK AND PAGE.

#9	MAY 24, 1957	BK 1478, PG 310	RESERVATION OF COAL RIGHTS
#10	JUNE 23, 1982	REC. NO. 1895416	OIL AND GAS LEASE
#11	APRIL 27, 2016	REC. NO. 4198726	ALTA/ACSM SURVEY

Title Verification Certificate

WE, LAND TITLE GUARANTEE COMPANY, DO HEREBY CERTIFY THAT WE HAVE EXAMINED THE TITLE OF ALL LAND PLATTED HEREON AND THAT TITLE TO SUCH LAND IS IN THE DEDICATOR(S) FREE AND CLEAR OF ALL LIENS, TAXES AND ENCUMBRANCES, EXCEPT AS FOLLOWS:

LAND TITLE GUARANTEE COMPANY

BY: _____ _____ DATE: _____

TITLE: _____

ATTEST: (IF CORPORATION)

SECRETARY/TREASURER

STATE OF COLORADO)
)SS
COUNTY OF _____)

ACKNOWLEDGED BEFORE ME THIS __ DAY OF _____, 20__
BY _____ AS _____

WITNESS MY HAND AND OFFICIAL SEAL

_____ (SEAL)
NOTARY PUBLIC

MY COMMISSION EXPIRES: __

Board of Trustees Approval Certificate

THIS PLAT IS TO BE KNOWN AS ERIE JUNCTION FINAL PLAT IS APPROVED AND ACCEPTED BY RESOLUTION NO. _____, PASSED AND ADOPTED AT A MEETING OF THE BOARD OF TRUSTEES OF ERIE, COLORADO, HELD ON THE __ DAY OF _____ 20__.

_____
MAYOR

ATTEST_____
TOWN CLERK

Planning & Development Approval Certificate

THIS PLAT IS HEREBY APPROVED BY THE TOWN OF ERIE PLANNING & DEVELOPMENT DIRECTOR ON THIS __ DAY OF _____, 20__.

_____
PLANNING & DEVELOPMENT DIRECTOR

Acceptance Certificate

THE DEDICATION OF TRACTS A-D IS HEREBY ACCEPTED FOR OWNERSHIP AND MAINTENANCE BY THE _____.

HOA

BY: _____ _____ DATE: _____

TITLE: _____

STATE OF COLORADO)
)SS.
COUNTY OF WELD)

ACKNOWLEDGED BEFORE ME THIS __ DAY OF _____, 20__ BY _____ AS _____.

WITNESS MY HAND AND OFFICIAL SEAL

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES: ____

Surveyor's Certificate

I, JESS JACOB KUNTZ, A DULY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS PLAT TRULY AND CORRECTLY REPRESENTS THE RESULTS OF A SURVEY MADE ON _____, BY ME OR UNDER MY DIRECT SUPERVISION AND THAT ALL MONUMENTS EXIST AS SHOWN HEREON; THAT MATHEMATICAL CLOSURE ERRORS ARE LESS THAN 1:50,000 (SECOND ORDER); AND THAT SAID PLAT HAS BEEN PREPARED IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS OF THE STATE OF COLORADO DEALING WITH MONUMENTS, SUBDIVISIONS OR SURVEYING OF LAND AND ALL APPLICABLE PROVISIONS OF THE TOWN OF ERIE UNIFIED DEVELOPMENT CODE.

I ATTEST THE ABOVE ON THIS _____ DAY OF _____, 20__.

JESS JACOB KUNTZ
COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR #38409

Clerk & Recorder Certificate

STATE OF COLORADO)
)
COUNTY OF WELD)

I HEREBY CERTIFY THAT THIS PLAT WAS FILED IN MY OFFICE ON THIS __ DAY OF _____, 20__ A.D. AND WAS RECORDED AT RECEPTION NUMBER _____.

_____
COUNTY CLERK AND RECORDER

APPLICANT/DEVELOPER:
DIVERGE HOMES, LLC
400 E. SIMPSON SUITE 120
LAFAYETTE, CO 80026

REVISION	DATE
1 - REVISIONS PER STAFF	2021-07-27 EP
2 - REVISIONS PER CLIENT	2021-08-07 EP
3	
4	
5	
6	
7	
8	
9	

ERIE JUNCTION FINAL PLAT

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Land Surveying Services
www.FlatironsInc.com

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DENVER, CO 80216
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FAX: (303) 922-5189

3825 IRIS AVE, STE 395
BOULDER, CO 80301
PH: (303) 443-7001
FAX: (303) 443-8630

655 FOURTH AVE.
LONGMONT, CO 80501
PH: (303) 776-1733
FAX: (303) 776-4355

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WILL HAVE RAISED
SEAL AND SIGNATURE

JOB NUMBER:	20-74,355
DATE:	05-19-2021
DRAWN BY:	E. PRESCOTT
CHECKED BY:	JK/JZG/WW

SHEET 1 OF 2

BY:EPRESCOTT FLT\74355-PLAT C21.DWG DATE:8/7/2021 11:48 PM

ERIE JUNCTION FINAL PLAT

A PARCEL OF LAND, LOCATED IN THE SOUTHWEST QUARTER OF SECTION 18,
TOWNSHIP 1 NORTH, RANGE 68 WEST OF THE 6TH P.M.,
TOWN OF ERIE, COUNTY OF WELD, STATE OF COLORADO
2.73 ACRES – 23 LOTS/4 TRACTS
FP__-__

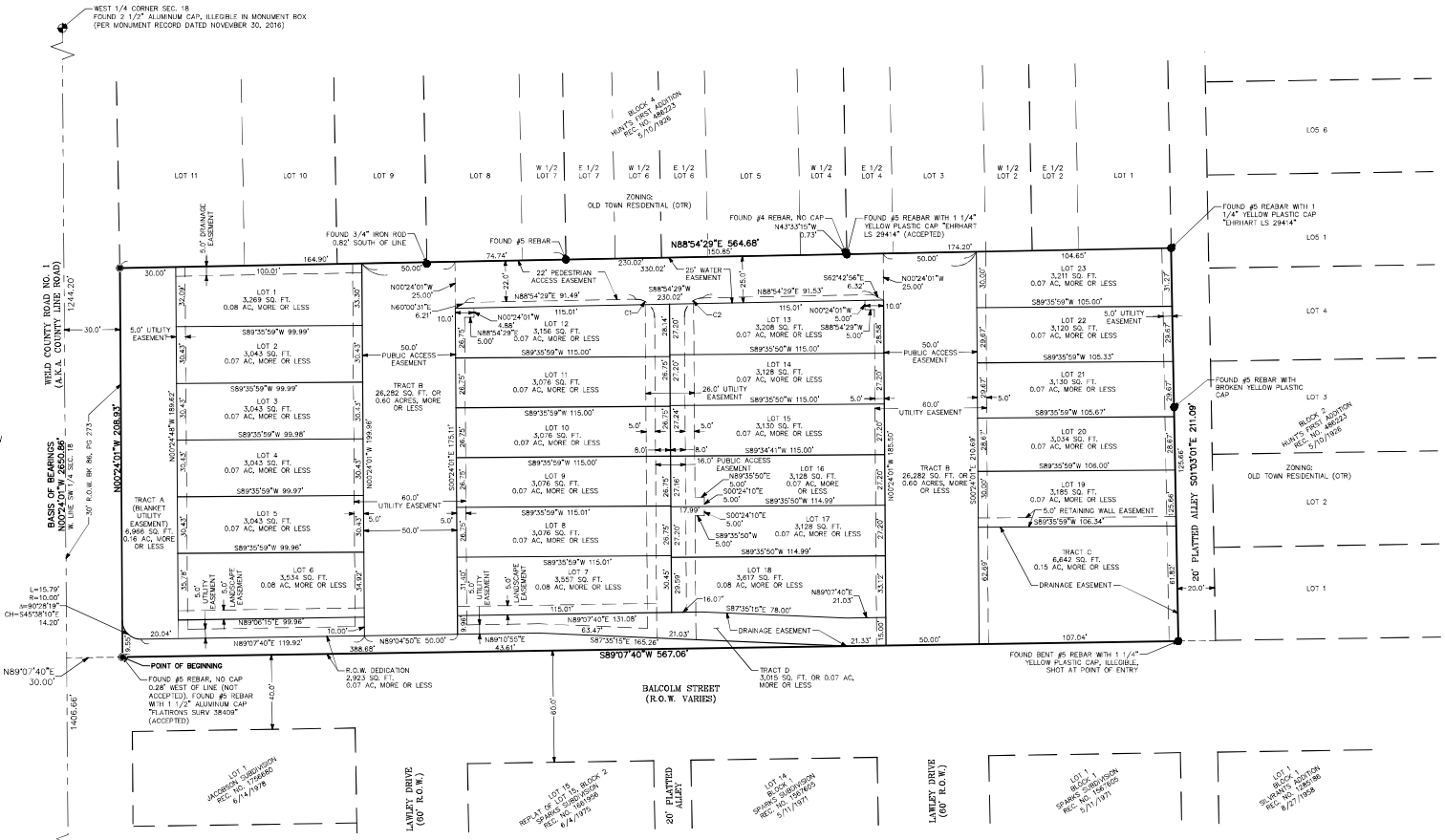
Legend

- FOUND ALIQUOT MONUMENT AS DESCRIBED
- FOUND MONUMENT AS DESCRIBED
- FOUND #5 REBAR WITH 1 1/2" ALUMINUM CAP "FLATIRONS SURV 38409"

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	15.83	10.00	90°41'30"	S45°44'46"E	14.23
C2	15.58	10.00	89°15'04"	N44°16'57"E	14.05

TRACT SUMMARY CHART				
Tract	Area	Use	Ownership	Maintenance
TRACT A	0.16 AC	UTILITY, LANDSCAPE & PUBLIC SIDEWALK	HOA	HOA
TRACT B	0.60 AC	ACCESS, LANDSCAPE, UTILITY & DRAINAGE	HOA	HOA
TRACT C	0.15 AC	LANDSCAPE & DRAINAGE	HOA	HOA
TRACT D	0.07 AC	LANDSCAPE & DRAINAGE	HOA	HOA

LAND SUMMARY CHART		
Type	Area (AC)	% Of Total Area
RESIDENTIAL LOTS	1.67	61.1%
TRACTS	0.99	36.3%
PUBLIC R.O.W.	0.07	2.6%
TOTAL	2.73	100.0%



Boundary Closure Report

COURSE: N00°24'01"W LENGTH: 208.93'
COURSE: N88°54'29"E LENGTH: 564.68'
COURSE: S01°03'01"E LENGTH: 211.09'
COURSE: S89°07'40"W LENGTH: 567.06'

AREA: 118835 SQ. FT.
ERROR CLOSURE: 0.01 COURSE: S84°24'48"W
ERROR NORTH: -0.001 EAST: -0.007

PRECISION 1: 155176

GRAPHIC SCALE

30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

REVISION	DATE
1 - REVISIONS PER COUNTY	2021-07-27 FP
2 - REVISIONS PER CLIENT	2021-08-07 FP
3	
4	
5	
6	
7	
8	
9	

ERIE JUNCTION FINAL PLAT

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Land Surveying Services
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FAX: (303) 325-3180
3825 IRIS AVE. STE 395
BOULDER, CO 80301
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FAX: (303) 443-8630

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WILL HAVE STAMP
AND SIGNATURE

JOB NUMBER:	20-74,355
DATE:	05-19-2021
DRAWN BY:	E. PRESCOTT
CHECKED BY:	JK/JZG/WW

SHEET 2 OF 2

BY:EPRESCOTT FLAT1355-PLAT C21.DWG DATE:8/7/2021 11:48 PM

DIVERGE

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Project Location: 3

Existing Conditions within the Subject Area: .....

Adjacent Land-Use/Zoning: 4

Summary of Prior Sketch Plan Submittals: .....

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Summary of Variances 10

Proposed Development Timeline - Phasing 10

Availability and adequacy of existing infrastructure and other necessary services including schools, fire protection, water/sewer service, and utility providers; 1

Location, function and ownership / maintenance of public and private open space, parks, trails, common areas, common buildings; 1

How the proposal relates to the existing land-use of the subject property and the zoning and land-use of adjacent properties, including statements describing areas of compatibility and conflict and the mitigation measures utilized. .....

How the proposal complies with the Town's Comprehensive Master Plan and approval criteria of the Municipal Code Title 10-UDC. 13

Applicant's Response to Title 10 UDC - Chapter 2: Zoning Districts .....

Applicant's Response to Title 10 UDC - Chapter 3: Use Regulations 13

Applicant's Response to Title 10 UDC - Chapter 4: Dimensional Standards 13

Applicant's Response to Title 10 UDC - Chapter 5: Subdivision Standards, Design, and Improvements: 13

Applicant's Response to Title 10 UDC - Chapter 6: Development and Design Standards 20

Section 10.7.12 Site Plan 28

A description regarding the status of mineral rights and the substance of any existing or proposed covenants, special conditions, grants of easements, or other restrictions applying to the proposed subdivision. 2

This written narrative generally follows the outline of topics provided in the Town of Erie's User Guide for Preliminary Plat. In addition to this Written Narrative, Applicant has included comments from each Sketch Plan in-line with the Town's formal response, as attachments to Section 10 Additional Information & Referral Documents.

General Project Concept

Applicant has proposed a 23-unit high quality residential infill development located within a designated blight zone of Erie's Old Town District. The subject property is 2.73 acres in size and the density of the proposal consists of ten duplexes and one triplex. Public amenities include a native plant walk, interactive art sculptures and water use demonstrations for public education and enjoyment. Four tracts of land are dedicated as privately owned and maintained areas with easements for public access streets, alleys, sidewalks, stormwater detention, and landscape buffer.

The proposed street layout aligns closely with the existing street grid of Lawley Drive to the south, and Main Street to the west. However, variances are required and detailed below. Building and lot layouts fully comply with Old Town dimensions and include private backyards with a mix of attached front-entry garages and detached rear-entry garages with a separate work-space loft above it. Architectural design is proposed as transitional with primary cues taken from the surrounding Old Town District's roof lines, brick finishes, and vertical board siding. The design intends to clearly reference the past but use these angles and materials in a more modern yet warm aesthetic.

Applicant's proposed development utilized and sought the highest level of compatibility with the general vision, rules, codes, and guidelines as published by the Town of Erie through the following documents:

1.) *Town of Erie Comprehensive Plan – 2015 Update*
2.) *Town of Erie Unified Development Code – Title 10, December 2019*
3.) *Town of Erie Downtown Redevelopment Framework Plan, September 30, 2016*
4.) *Historic Old Town Erie Urban Renewal Plan, 11.12.1*
5.) *Town of Erie Parks, Recreation, Trails and Open Space – 2016 Update*

Applicant's civil engineering utilized the following documents, plans, and policies from the Town of Erie:

1.) *Town of Erie Transportation Plan*
2.) *Town of Erie Utility Master Plans*
3.) *Town of Erie Standards and Specifications for Design and Construction of Public Improvements*
4.) *Urban Drainage and Flood Control District Policies and Standards*

Lastly, Applicant utilized in a tangential manner the following activities, research and Town documents/records to help influence and reinforce their overall vision and design ideas:

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1.) *Site walks and character studies of the surrounding neighborhood*
2.) *Reviews of Town of Erie development applications from other developments located in or near the Old Town District.*
3.) *Town of Erie 2020 istoric Preservation Master Plan*
4.) *Parks, Recreation, Open Space & Trails Master Plan Summary*
5.) *Prior subject property owner's Sketch Plan submittals from 2015 & 2016, including Town comments of same.*

Project Location:

Erie Junction is located at 4060 E. County Line Road, on the northeast corner of E. County Line Road and Balcolm Street in Old Town.

Existing Conditions within the Subject Area:

Zoning: OTR – Old Town Residential
Project Size: 2.73 Acres
Existing Use: Vacant (site previously used as a precast concrete business)

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Adjacent Land-Use/Zoning:

	ZONING	LAND USE
NORTH	OTR – Old Town Residential	Old Town – Single Family Residential
SOUTH	OTR – Old Town Residential	Old Town – Single Family Residential
EAST	OTR – Old Town Residential	Old Town – Single Family Residential
WEST	B - Business	Exploring Minds Day Care Center Single Family Resident Vacant Warehouse Building

Summary of Prior Sketch Plan Submittals:

Applicant submitted two prior Sketch Plans to the Town and received design review feedback on 2/3/2021 and 4/2/2021, respectively. In those reviews the core concern was resolving the conflict between Applicant's desire to retain the street grid and lot layout of the adjacent Old Town District while adhering to the new suburban-focused street buffers and rights-of-way requirements as defined within the Town's UDC and Standards and Specifications. Other minor issues were also resolved for building envelope encroachments, detention, and sidewalk design.

Applicant has responded in-line to all documents received from the Town during each Sketch Plan, please see Section 10. Additional Information & Referral Documents.

Purpose of this Request

The purpose of the Erie Junction project and every other Diverge Homes development is to contribute to and enhance its surrounding Old Town neighborhood by following three core concepts:

1.) Implement high quality subdivision design that is sensitive to and reflects the character of the surrounding neighborhood for both street grid and architecture without sacrificing the sentiments and needs of today's new home buyers.
2.) Enhance the economic and social vitality of the surrounding neighborhood through the marketing of high-demand properties and unique, long-lasting infrastructure and amenities.
3.) Encourage a visibly strong connection to nature and the arts throughout the development.

Developer Background

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Diverge Homes LLC (www.divergehomes.com) is both the owner and developer of Erie Junction. Founded in Lafayette, Colorado, in 2016, Diverge Homes' mission and vision remains in place today: to lead the industry in redevelopment of American small towns. Please note the background below was redacted from our corporate website and may contain forward-looking statements regarding potential projects and marketability of the company.

Building *Townie Life*®

At Diverge we believe that big cities are exciting and a lot of fun. They can also be intense. The noise, frenetic pace, and lack of space can take their toll. Our core idea is to deliver residential products and experiences that allow people to obtain the solace and simplicity of life — and an amazing house — in a small town. Why? Because we believe small towns offer an unmatched combination of benefits: close to outdoor pursuits, yet they don't require giving up walkability to fantastic restaurants, shops, music, and art. But most of all, living in a small town means that you won't have to live in the big city, or, the suburbs. Diverge does not support or invest in sprawl.

Since launching in 2016 we have been working hard to make this idea a reality. We build communities in small towns for those looking for greater proximity to the outdoors, walkability to revived old towns, and smartly designed homes built for active families. Diverge is a new kind of developer. One that is laser-focused on small town infill as opposed to sprawl. We create neighborhoods that are truly a part of the towns they are in.

Diverge by the Numbers

4	Colorado Developments
100+	Homes in Process
1	Sculpture with 2000+ Mylar Tubes
26	*Townie Homes*® Delivered
10%	Annual Growth Rate
1,253	Plants and Trees Planted To Date

Diverge Homes Mission

We are on a mission to rebuild America's small towns. We proudly diverge from industry expectations, not only in the locations we choose but in believing that home builders should offer greater transparency, deep info sharing, high-touch service, and door-to-door neighborhood communication.

Diverge believes in thoughtful development that enlivens our small-town communities. We hire local contractors, designers, and builders who know and care about the towns we build in. Our way may not be the fastest or easiest, but it's always the right way.

Our move-in ready homes are designed with smart, active lifestyles and families in mind. Community areas seek to inspire wonder and connect to the nature around them, with access to trails and open space, and amenities like pocket parks, native plant walks, and kinetic art installations.

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Walkability and a Meaningful Connection to Nature
Our developments are either in quaint old-town districts or just nearby, so the car can stay in the garage when you're out for the day or for a night on the town. These small towns, with their picturesque Main Streets, are steeped in history while offering unique shops and restaurants that easily rival those found in bigger cities.

Likewise, each of our developments are near trails and/or parks and open spaces, so the best of Colorado is at your doorstep. And within all of our community areas, we design funky outdoor art and landscape that inspire and educate.

Our Projects (in addition to Erie Junction)
Cannon Trail - Lafayette, Colorado (www.cannontrail.com)

Cannon Trail is our flagship development, and the high demand proves that we're onto something. It validates our mission that Diverge communities positively contribute to the small towns they're in. It also confirms our gut instincts about being completely open about what we do. Cannon Trail has clearly resonated with homebuyers looking for a better way to live.

We invested in Lafayette because we see how people enjoy the active Old Town district and we believe in its on-going potential. It's such a fun, diverse place to call home. With art galleries, restaurants, breweries, a theater, and a stellar children's museum, Lafayette offers everything you might want from a big city.

The Cannon Trail neighborhood includes 39 paired and single-family homes, and features pocket parks, a native plant walk, and a kinetic art installation. All within a five-to-ten minute walk to Old Town Lafayette, with it's wonderful shops and delicious restaurants.

The development lies next to the Coal Creek Trail, a beautiful, year-round biking and hiking path connecting Lafayette and Louisville. And the RTD Park and Ride is less than a mile away.

608 Yampa – Steamboat Springs, Colorado

We are excited to announce our new development in the heart of downtown Steamboat Springs. It's right across the street from the Yampa River and next to a small park (that hosts the weekly Farmers' Market during the summer). 608 Yampa will feature four to five well-sized condominiums, a first floor parking garage, and an exciting but as of yet unnamed window dressing for use by the Steamboat Arts Council and Steamboat Main Street Economic Development Corporation. The project location affords forever views of the Yampa River, Howelsen Hill, the Rodeo arena, and even Mt. Werner. 608 Yampa sits in the heart of the vibrant and fast-growing Old town riverfront district, with all the restaurants, shops, and attractions that Steamboat Springs is known for.

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For outdoor enthusiasts, it really doesn't get much better. Fly fishing the Yampa's best section is literally across the street, and you'll be a few minutes away from soaking in hot springs, skiing, hiking, riding, climbing, and cycling. Whatever it is that you love to do, it's here for you in Steamboat. Best of all, unlike many of Colorado's glitzy ski towns, Steamboat Springs retains its down-to-earth Western heritage.

Bonvue Ranch - Golden, Colorado

With an enviable location just minutes away from Denver, Golden is the home of our latest project. Located at the foot of the Rockies, our North Table Mountain property has stunning views. The project is currently zoned for 30 single-family homes. Trailheads are just a short walk away, so put together a day pack and the hike begins at your doorstep. The car stays behind.

Golden is one of the original communities of the American West, and this is still reflected in the city's character, even with its proximity to Denver. Golden has kept a level of diversity for architecture, retail, and restaurants that other towns envy. The buildings are heavy on stone and wood as opposed to steel, concrete, and glass and our architecture will reflect and build upon this heritage.

There are several equestrian stables nearby, including one right across the street from our development. Hiking, climbing, biking, kayaking, skiing, horseback riding, as well as being near to good jobs, schools, and cities — there might not be a more perfect distillation of "Colorado living" than in Golden.

Our People

Nick Jacobs – President and Founder

Nick is President and Founder of Diverge Homes and affiliated companies. He founded the company in 2016 and oversees all operations, services, and developments. Specific responsibilities include site acquisition, building and site design, data science for, and financing of all projects.

Diverge Homes' founding vision remains in place today: to redevelop under-utilized parcels of land in and around American small towns, starting with Colorado. Nick structured the company so that architecture, amenities, and construction operations can be repeated with high consistency regardless of location.

Prior to Diverge Homes, Nick spent 17 years in telecommunications and technology, managing operations and sales for real estate acquisition, construction, hardware, and software. He received an M.A. from Utah State and a B.S. from Michigan State.

Ken Bailey – Construction Director

Ken is based in Boulder County, Colorado, and is responsible for all residential construction and operations. He has over 40 years in single and multifamily construction.

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Ken has led the design and construction of nearly 200 units in the Boulder and Denver metropolitan area.

Ken's strength is his artistic touch combined with the pragmatism of a veteran builder. Whether designing large custom homes or dozens of multifamily units, all buyers are guaranteed to receive the same level of attention and service that has led to Ken's reputation for excellence.

Stephanie Iannone, Mindy Nassar, and Kim Avery – he Iannone Real Estate Group at Housing Helpers, Sales Team

With over $500 million in real estate transactions, the Iannone Group at Housing Helpers of Colorado brings significant real estate brokerage experience to the Diverge team. Plus, they believe in our mission like no other. Our partnership with the Iannone Real Estate Group extends far beyond just sales brokerage and marketing. They consult and support Diverge Homes' development opportunities, providing invaluable input on everything from site plans, lot layouts, floor plan functionality, and interior design.

Stephanie Iannone, Owner & Managing Broker
Stephanie leads the Iannone Real Estate Group at Housing Helpers of Colorado. Over the years, she has received numerous awards and recognition for her expertise. These include Distinguished Realtor of the Year, Top 25 Most Powerful Salespeople in Colorado, and for eight consecutive years, Stephanie has received Denver's Top Real Estate Agents Five Star Award. Her company, Housing Helpers of Colorado, has been named one of the Top 50 Woman-Owned Businesses in Colorado.

Stephanie's executive experience includes serving as a Director for the IRES regional MLS Board and Boulder Area Realtor Association, as well as Chair of the Boulder Chamber. She brings her passion and leadership to Diverge, where she and her team achieve extraordinary results on our projects.

Mindy Nassar, Broker Associate
A lifelong Coloradan, Mindy has witnessed the change and growth that has transformed the state into one of the most desirable places to live in the country. She is a wealth of experience in all aspects of the real estate industry, from mortgages to development to sales. However, it's meeting new people and helping clients find the perfect place to call home that she truly loves. She brings this love, along with her enthusiastic personality, professionalism, accessibility, and honesty to her work selling Diverge Homes.

Kim Avery, Broker Associate
After selling luxury real estate in Northern California, Kim relocated to Lafayette in 1997. She still manages to find new places to explore in Colorado. Kim has been with Housing Helpers since 2008. She is dependable, productive, and focused on delivering excellent customer service. Kim delights in helping our clients find the perfect home and assists them in navigating the paperwork.

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Stewart Architecture – Architecture & Design

Since 1992 Stewart Architecture has provided planning and architectural services for a diverse range of project types, including public, commercial, residential, land planning, and historic preservation. Their focus is on building community through sustainable planning and architecture. The firm believes sustainability includes preservation of our energy, natural, and cultural resources.

Based in Louisville, Stewart Architecture is recognized for its cultural heritage and preservation work with numerous awards. These include the Stephen H. Hart Award of the Colorado State Historical Society and the Colorado Preservation Inc. Dana Crawford Award for Excellence.

Peter Stewart, Founder and Principal
Peter has practiced architecture in Colorado for 30 years, planning and implementing historic and sustainable neighborhood and home design projects. He is a passionate advocate for the reuse of existing structures and resources. He leads the way in reuse while never compromising modern adaptations and energy performance in his numerous residential, commercial, and public projects. Peter's sensitivity to local community and context distinguish him and his firm. With Diverge, Peter designs quality neighborhoods and homes that create a sense of place where people want to live, work, and play.

Kelsey Tessier, Architect
Kelsey develops architectural designs for Diverge Homes, as well as the construction documents and permit submissions. A Colorado native, Kelsey has been with Stewart Architecture for six years. She received her masters' degree in Architecture from Montana State University in Bozeman. Kelsey has a variety of experience in residential, historic preservation, and small commercial architecture. She especially enjoys pushing the limits of design to create unexpected solutions. Outside of architecture, Kelsey loves

Jim Brzostowicz – Civil Resources, Inc.

For more than a decade, Civil Resources has provided civil, municipal, and private engineering expertise and services to the communities of the Rocky Mountain region. Established in 2003 in Frederick, Colorado, just north of the Denver Metro area, their professional services also include water resources, geotechnical engineering, roadway and facilities design, land development and construction engineering. They have worked with the Town of Erie for over five years.

Civil Resources believes in smart, constructible design and enduring value, in building infrastructure to withstand time and the elements, and in creating communities that enhance the way we live, work and play. They strive to understand stakeholder goals and make them their own. And Civil Resources always designs and constructs with the health and safety of the community in mind.

© Diverge Homes LLC 202

Jim joined Civil Resources in 2011, and has been practicing civil engineering for more than 20 years. His professional experience includes a variety of development and municipal projects, including complex urban and transportation projects, energy services, health care and commercial. Jim is extremely involved in design work and consistently uses technology to supplement sound engineering judgment.

Summary of Variances

This project application requires two variances to the Town of Erie standard for local streets and alleys.

The Town's vision for Old Town infill and redevelopment, as stated in the 2015 Comprehensive Plan and Uniform Development Code, Title 10, is to adhere to and maintain the Old Town street/lot grid. Diverge Homes strongly agrees with this approach. However, the Town also requires a 30' buffer along County Line Road, and, the adjoining property layout to the north is atypical compared to the south and western areas.

The Town's code requirements for the 30' buffer combined with the atypical lot layout on the northern boundary create conflicts with the goals and expectations within Title 10-UDC for standard street layout.

After discussion and two Sketch Plan reviews with the Town on these street and lot layout issues, Applicant believes the proposed design strikes the most optimal balance: The buffer zone is established as required and the street and lot grid is, for the most part, directly in line with the existing Lawley Street and Main Street designs.

Achieving this balance requires a variance to and privatization of the local streets and alley proposed to serve the subdivision. Further details of these variances are provided below in Section 7.D.4 *Applicant's Response to Title 10 UDC Chapter 6: Development and Design Standards.*

Proposed Development Timeline - Phasing

- 2022: Commence and complete infrastructure; construction start on 5 units (Lots 19-23).
- 2023: Completion of any units from 2022 and construction starts on 12 units (Lots 7-18).
- 2024: Completion of any units from 2023 and construction starts on 6 units (Lots 1-6)
- 2025: HOA transfer to Homeowners.

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Availability and adequacy of existing infrastructure and other necessary services including schools, fire protection, water/sewer service, and utility providers;

Existing infrastructure on or adjacent to the property have been identified and confirmed as adequate for the purposes of this proposal. Applicant has engaged the services of Xcel for electrical and gas design and installation. The Town of Erie has confirmed availability and sizing capability for sanitary sewer and water. Drainage has been designed in conformance with the Town's standards, and the associated exhibits, drawings, and reports are attached herein.

Fire Protection through Mountain View Fire Rescue has reviewed and provided preliminary approval for all public access street designs, turning radius, and hydrant placement.

St. Vrain School District provided preliminary review and approval during Sketch Plan for the increased population impact associated with Applicant's proposal.

Location, function and ownership / maintenance of public and private open space, parks, trails, common areas, common buildings;

The Erie Junction Homeowner's Association will own and maintain all common areas, streets, sidewalks, alleys, detention, and boulevard areas. Please refer to the Preliminary Plat design for location and function. The HOA documents have been attached in Section 6 – Special Agreements.

There are no publicly-owned spaces proposed by Applicant. Public Access Easements are shown on the Preliminary Plat for the common areas, streets, sidewalks, alleys, detention, and boulevard areas.

How the proposal relates to the existing land-use of the subject property and the zoning and land-use of adjacent properties, including statements describing areas of compatibility and conflict and the mitigation measures utilized.

The existing land-use of the subject property is vacant land with no structures. For its recent history, the land-use was light industrial, and more specifically, a pre-cast concrete packaging business.

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The subject property and surrounding areas of Old Town are currently defined as blight per the Town's Historic Old Town Erie Urban Renewal Plan.

The land-use of adjacent properties are residential to the north, east, and south. To the west is County Line Road followed by business properties for pre-school education (Exploring Minds Day Care Center) and a single-family residential lot/structure including a warehouse building that also operates as a general contractor (G S Services Co).

In determining the type of residential use for the subject property, Applicant considered several housing types allowed within the OTR district, including but not limited to: Apartments, Mixed Use, Single-Family, and Multi-Family residential buildings ranging between 2-6 units. Applicant also conducted field surveys of all surrounding residential buildings and a broker's market analysis for home pricing in the Old Town district.

The outcomes of this effort and resulting research guided Applicant's decision to propose a development for paired (duplex) residential housing because it provides the highest level of compatibility with the adjacent Old Town properties in terms of size and price. Single family homes are not commercially feasible or marketable on the subject property due to the blight of the surrounding land use and overall, the much lower price points of adjacent properties when compared to a newly constructed single family home. Alternatively, Applicant considered multiple 4 to 6 unit row-house buildings but deemed such a layout as too intense when compared to the single-family layout of the surrounding area.

Applicant's proposed plat designates that each unit within the development hold title as fee simple, meaning that the owner of each unit will control and hold title to their entire property including the land beneath and sky above. This type of land ownership is the most compatible title with the surrounding land use. The shared wall between units is often referred to as a party wall, and the terms and conditions for party walls are defined in the Erie Junction Homeowner's Association which is included in this submittal package.

Applicant's proposed unit size and livable square footage of each unit will range from 1,750 to 2,000 square feet above grade, not including basements, along with backyard space and detached garages to more closely align with the adjacent properties.

Applicant's proposed lot design of ten paired homes and one triplex building is estimated to price in the range of $500,000.00 to $650,000.00 per unit, depending on market costs, buyer demand and other key criteria. This estimated range is highly compatible to the recent closing values and estimated appraisal values of the surrounding single-family residential homes.

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How the proposal complies with the Town's Comprehensive Master Plan and approval criteria of the Municipal Code Title 10-UDC.

Applicant has categorized its response in line with the Code as applicable. Only those sections of code were addressed herein when they required explicit affirmation or specific detail and/or data.

Applicant's Response to Title 10 UDC - Chapter 2: Zoning Districts

The proposed development is subject to and complies with Chapter 2: Zoning Districts, Section 10.2.2.H Old Town Residential (OTR).

Applicant's Response to Title 10 UDC - hapter 3: Use Regulations

The proposed development is subject to and complies with Special Review Use per Section 10.3.1 Table 3-1: Table of Permitted Uses.

Applicant's Response to Title 10 UDC - hapter 4: Dimensional Standards

The proposed development is subject to and complies with the Town requirements for OTR lot dimensions and building bulk, density, location, setbacks and height as shown in the table found in Section 10.4.1.A, included below:

- The subject property is in the OTR zoning district.
- Proposed Density of 8.4 units per acre.
- No variances or exceptions are requested as related to this Chapter 4.

		Minimum Lot Standards		Minimum Setbacks (ft.) [2]					Max Height (ft)
District	Max/Min Density (DU/Acre)	Width (ft)	Net Area [3] (sq ft)	Front	Street (all uses)	Interior Lot Line		Rear	
OTR	SF: 5/na MF:16/na	SF: 50 MF: none	SF: 6,000 MF: 3,000 per DU	Principal: 20 Accessory:30	20	Prin: 5 [1]	Acc:5 [1]	Principal: 20 Accessory: 5	Prin: 35 Acc: 25

Applicant's Response to Title 10 UDC - Chapter 5: Subdivision Standards, Design, and Improvements:

10.5.1 Purpose

Applicant Response – Affirmed.

10.5.2 Applicability

Applicant Response – Affirmed

10.5.3 General Provisions

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A. Grading and Stormwater Permits – Applicant complies. Detailed Drainage reports are attached herein in Section 9 – Development Reports and Plans. Permits will be applied for and obtained through CDPHE as required.

B. Minimum Standards – Applicant is requesting variances for the minimum standards in two areas: 1.) Street design; and 2.) Minimum utility dimension. Details of these two variances are provided below.

C. Phasing Schedule – Applicant intends to simultaneously construct all infrastructure to serve the subdivision prior to commencing construction of a building and as such, no phasing schedule is requested or provided by Applicant.

D. Compliance with Other Provisions of this UDC – Applicant complies.

E. Compliance with other Town of Erie Adopted Plans and Policies – Applicant complies.

10.5.4 Layout and Design Generally

A. Name of Subdivision – Erie Junction is the name of the subdivision. This name does not duplicate the name of any existing subdivision in the Town.

B. Natural and Scenic Resource Protection – Applicant's acknowledges that this proposal complies with the standards and requirements in Section 6.2.

C. Natural Hazard Areas – The subject property is located adjacent to an area shown as "high risk" on available mine subsidence maps. Applicant's preliminary geotechnical engineering report from Spring 2021 suggested an additional study to determine if there is a proximity risk to the subject property.

Applicant consulted with an environmental services firm, Western Environment and Ecology, that specializes in undermining and subsidence research. This firm indicated to Applicant via email, which is included as an attachment to Section 9 of this response, that the property is not at risk for undermining of subsidence. Applicant has since requested a formal letter from this firm and will submit that document to the Town as an attachment to this application.

D. Adjoining Subdivisons – Per the variances described above, Applicant's proposal presents the best case possible for coordinating its subdivision design with the adjoining subdivisions, utility and drainage easements, and other relevant design considerations.

E. Lots – Applicant's lot size dimensions are standard for the Old Town district and for the type of development and use contemplated herein. Applicant complies with all sub-items within this Section.

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F. Blocks – Applicant affirms and complies with this Section.

G. Streets – Applicant's proposal requires a variance from Town Standards due to several factors:

1.) The Town's requirement for a 30' buffer zone along County Line Road, causing a direct conflict with the Town's requirement to align new subdivision design with the adjoining subdivisions.
2.) The atypical street grid connection from the adjoining Lawley Drive south of the property. There is no possibility for a thru-street to the north of subject property.

The primary goal of Applicant is to meet the criteria of UDC 10.2.2h for architecture and the proposed street and lot grid.

After careful consideration and feedback from Town Engineering, Applicant chose to extend the existing Old Town lot and street grids adjoining the subject property from the south and east, as they are the only areas with public Rights of Way that connect with the subject property.

- Lawley Drive area is immediately south of the subject property.
- Main Street area is immediately east of the subject property.

Applicant excluded the design from the western and northern boundary areas of the subject property due to the following:

- The western line of the subject property adjoins County Line Road and represents the end of the Old Town District.
- The northern line of the subject property backs to atypical residential lots and consists of a minimum 6' foot high privacy fence owned and maintained by others.
- There is no possible Right of Way connection from the northern boundary to the subject property.

Variance Overview — Continuation of Lawley Drive with Alley Connection

Applicant' request for an engineering variance proposes no change to the standard Town of Erie local street collector dimensional requirements for Total Dimension (60' width), Roadway Traffic Flows in each direction (11' width), Parking Areas (4' width), or Curb and Gutter.

A variance is required for Applicant's proposal to join the 5' sidewalk to the curb and gutter, thereby excluding a sidewalk boulevard, utilizing the remaining dimension from back of walk for a gas utility easement on each side of the road. This change does not alter the public safety or introduce additional life safety risk. It is necessary

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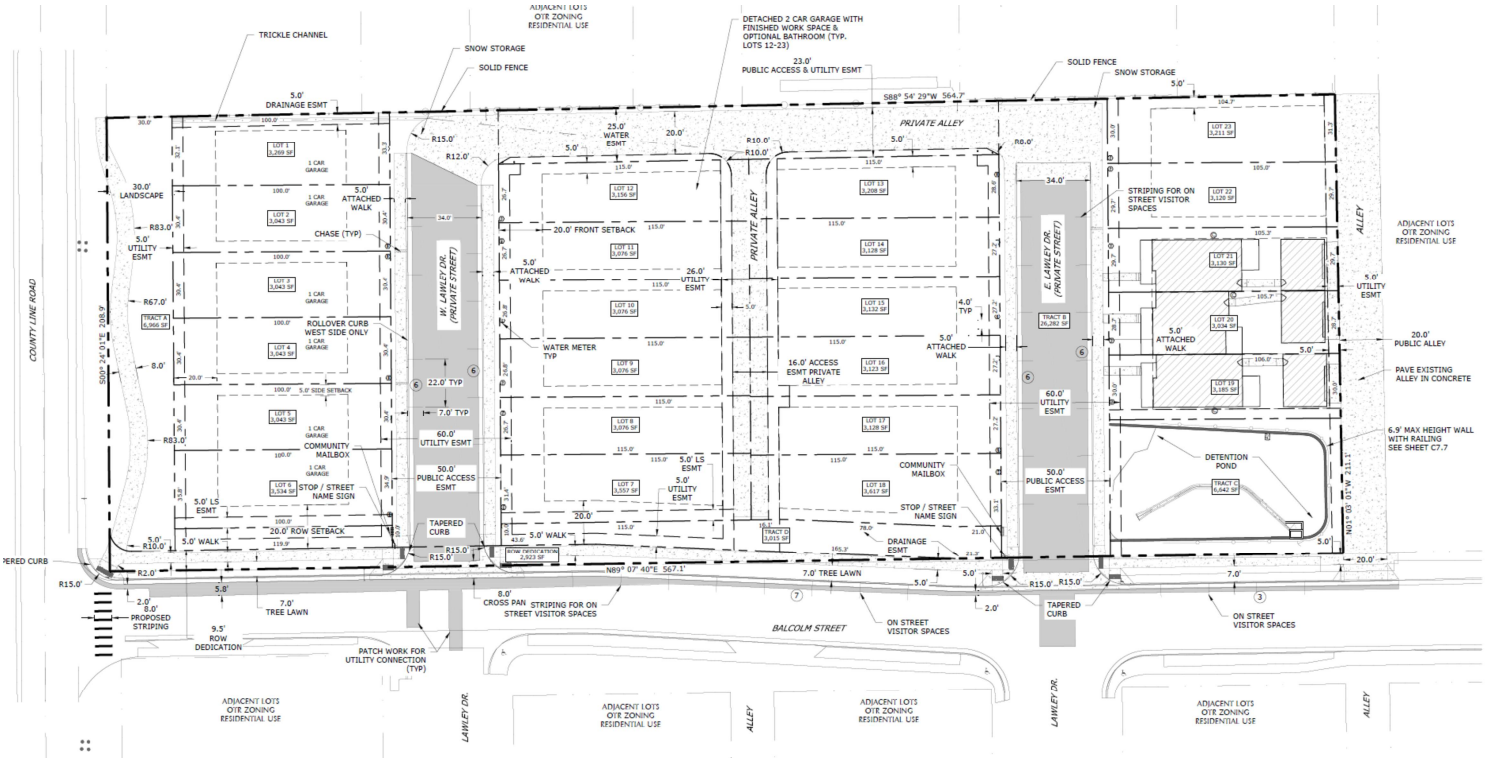
to allow the private streets proposed for this development to align as closely as possible with the adjoining subdivision.

Comparisons between the proposed and standard local street section are shown on the following pages. Applicant's Site Plan is shown below:



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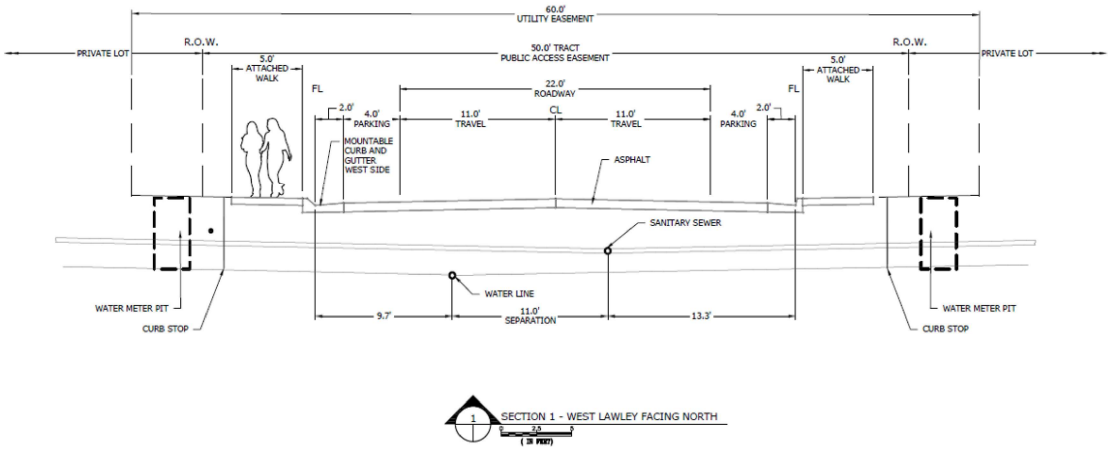
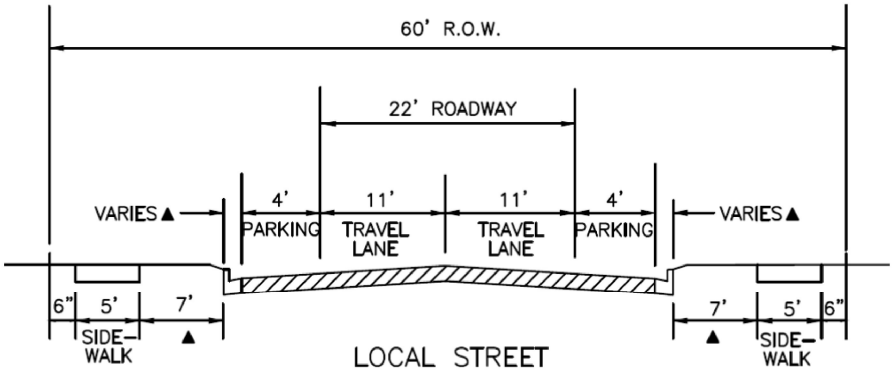
Variance 1A: Street Section for Proposed West Lawley



Applicant proposes no change to the dimensional requirements for the Roadway travel lanes, parking areas, or curb and gutter. A 5.0' foot attached sidewalk is proposed for both sides with a mountable curb and gutter proposed for the west side, to accommodate the street entry garage units. A standard curb and gutter is proposed for the east side. The 60.0' foot wide utility easement spans the entire street section and, after sidewalk, allows for 7.0' feet of utility space beginning at the back of each sidewalk. This 7.0' foot dimension is equal to the existing standard.

Shown in comparison with:

Town of Erie Street Section for Local Streets (and for adjoining Lawley Street)



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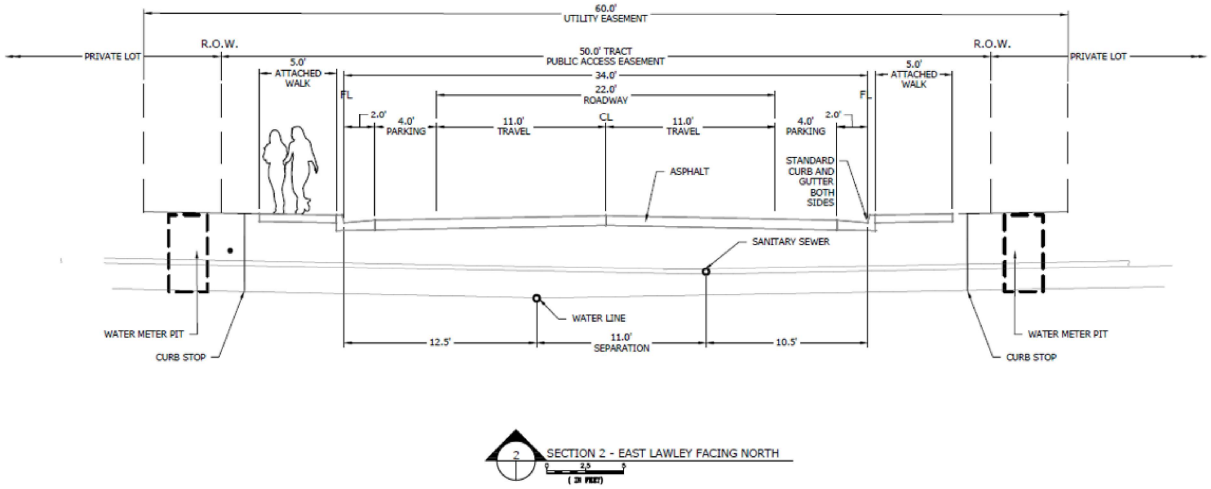
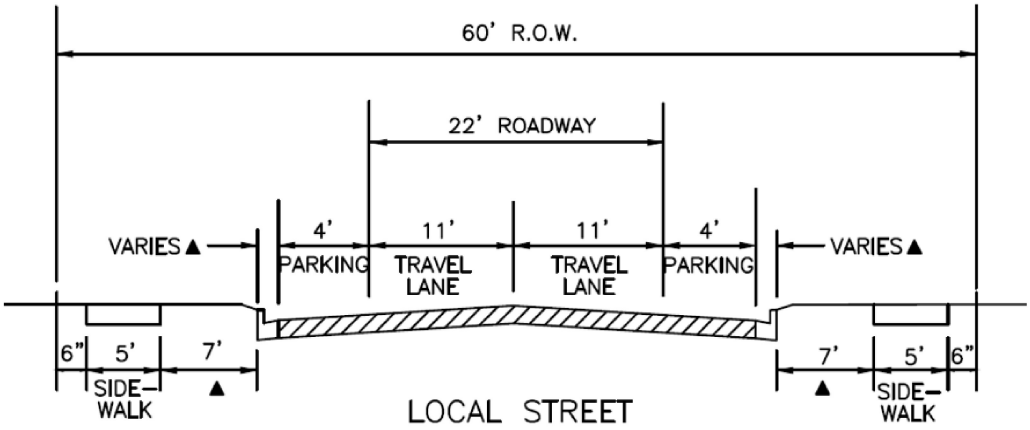
Variance 1B: Street Section for Proposed <u>East</u> Lawley



Applicant proposes no change to the dimensional requirements for the Roadway travel lanes, parking areas, or curb and gutter. A 5.0' foot attached sidewalk is proposed for both sides with standard curb and gutter. The 60.0' foot wide utility easement spans the entire street section and, after sidewalk, allows for 7.0' feet of utility space beginning at the back of each sidewalk. This 7.0' foot dimension is equal to the existing standard.

Shown in comparison with:

Town of Erie Street Section for Local Streets (and for adjoining Lawley Street)



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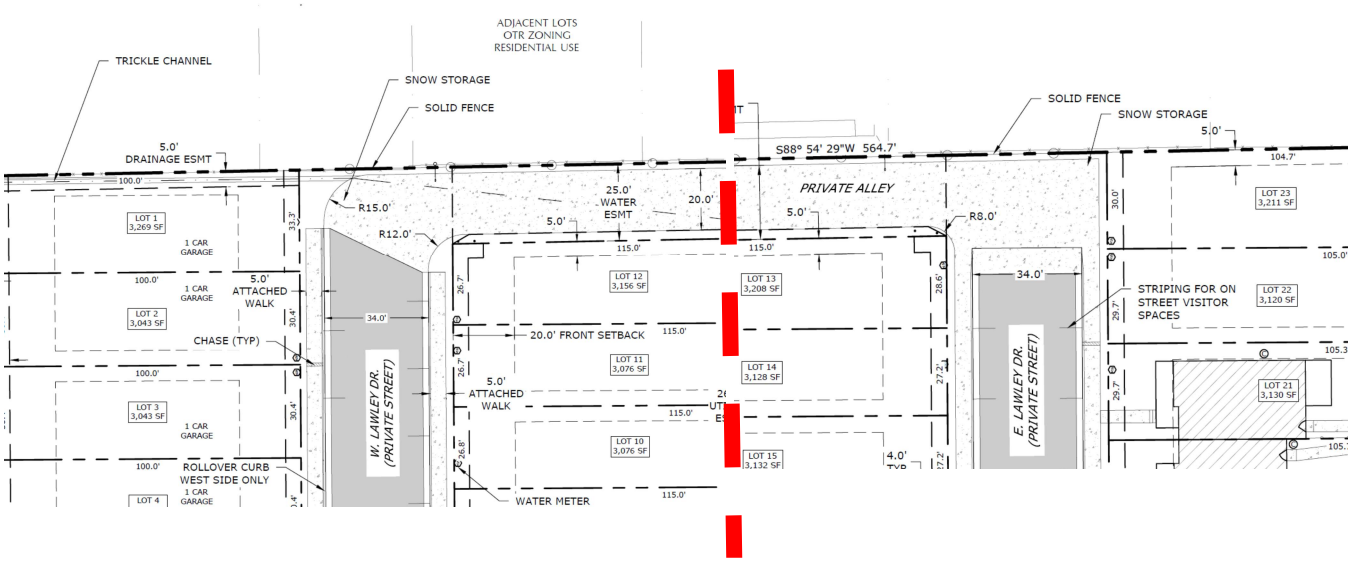
Variance 2: Dead-end Street with 25.0' ft Alley Connection

Per the Site Plan shown above, this variance results from Applicant's desire to continue the existing street grid northward from each Lawley Drive ROW and to continue the lot grid westward from the existing Main Street area. Rationale and justification for this variance is provided in detail above.

A 25.0' foot paved, privately owned, alley is proposed as a connector between the ends of East and West Lawley Drive. This alley has been designed to accommodate snow storage and emergency vehicle access. Rocky Mountain Fire reviewed the design and provided verbal approval in March, 2021. Bollards are proposed in front of (south of) the existing solid fence area (shown in the drawing below) and on the inside turning radius of each corner.

Please refer to the full construction drawings for detail.

Shown below are close-up views of the alley connection to each street.



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H. Alleys – Applicant affirms and complies with this Section.

I. Sidewalks, Curbs, and Gutters – Applicant affirms and complies with this Section.

J. Utility Easements – Variance Requested.

Applicant has requested a utility easement of 25.0' feet, in lieu of the standard 30.0' feet, within the northern alley connecting East and West Lawley. One utility, water, is proposed for this alley. Town Engineering has provided verbal approval for this shortened dimension and their comments are reflected in the construction drawings.

K. Storm Water Drainage – Applicant affirms and complies with this Section.

L. Water and Wastewater Lines – At the time of submittal, the Town has not required oversizing of water lines. Applicant confirms that design standards are in accordance with Town Engineering documents.

M. Water Courses and Ditches – Not Applicable to the subject property.

N. Water Supply – Applicant affirms and complies with this Section.

10. Improvements – Applicant affirms and complies with this Section.

10.5.6 Dedications and Fees In-Lieu – Applicant affirms that a payment in-lieu of land dedication, pursuant to Section 10.6.3, for Parks and Open Space, will be required for the subdivision. Applicant affirms that an additional payment in-lieu of land for public school sites will also be required for the subdivision.

Applicant's Response to Title 10 UDC hapter 6: Development and Design Standards

10.6.1 General Provisions

The surrounding architectural character of Erie Junction and Old Town Erie, in general, as articulated in the Town of Erie's Urban Renewal Plan, "is often described as being comprised of "a little of everything" meaning that in its most established areas, such as Old Town, neighborhoods feature homes representing a broad spectrum of architectural styles, sizes, types, and ages."

Applicant strongly favors this type of eclectic mix, which is the result of development that occurred over more than one hundred years. Each era features architecture which was in style or popular in its time, such as Victorian style in the early part of the

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twentieth century, followed by craftsman and bungalow styles and mid-century modern as seen on Lawley Drive. Erie Junction's character fits within this context by utilizing familiar shapes, forms, and scale found in Old Town, such as primary gable roofs with lower pitch porches and appurtenances, as wells as hip and shed roofs. Exterior materials utilize siding and other materials found across Old Town. Composition and detailing of these elements are not merely an extracted "traditional style" but are more modern, reflective of our time, just as the Victorian, bungalow and mid-century modern architecture within Old Town reflected their time in history.

Applicant believes this compatibility to Old Town, while being new, will instill a sense of location and place missing in many production developments which simply extract those "traditional styles" and do not have a sense of time or place. By utilizing traditional street patterns, small town scale, and architectural forms, Erie Junction synthesizes modern materials and detailing to provide energy efficient and sustainable housing while retaining and respecting the Old Town context and its historic character.

Applicant applied careful consideration to the physical relationship between the proposed development and adjacent properties. The general goal was to implement the Town's Comprehensive Master Plan vision in the most compatible way while also showcasing the unique character and high quality of a Diverge Homes development.

- The proposed built environment is directly in line with newly built structures in Old Town and adjacent areas.
- The subject property is currently vacant with no natural or scenic resources to protect.
- Applicant's landscape plan shows quantities of new trees and shrubs that exceed minimum Town standards.
- The buffer zone landscaping along County Line Road and the native plant walk and kinetic art work proposed along Balcolm Street will establish a high quality appearance for the Town while allowing for both Diverge Homes to showcase its own individuality and for the Town's art council to have a role in determining the public art sculptures.
- Applicant's goal with this proposed development is to significantly enhance this southwestern portion of Old Town Erie. The character and style of this proposed development is of higher quality than the surrounding areas, all of which are designated as blight. Applicant's mission as a small-town infill developer is to invest in the future, recognizing that the pace of change in the immediately adjacent area will soon keep pace with the proposed development.
- Applicant's core engineering efforts have encouraged building orientation and physical connections that contribute to, and are directly in line with, the surrounding network of streets and walkways.

Applicant conducted two architectural character studies in March and June, 2021. Below are the adjacent buildings whose designs were most influential. Applicant has borrowed the influences of color, roof form and style, exterior finishes of brick, stucco, and vertical

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siding, along with floor plan dimensions and sizing. All buildings shown below are within one-to-two blocks of the subject property.

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10.6.2 Natural and Scenic Resource Protection

The subject property is currently a flat, vacant parcel with no natural or scenic resources to protect.

The following list comprise the man-made features that will contribute to the Town's scenic quality and small-town character:

- Botanical garden signage for all unique plants and artwork.
- Native plant-walk with specimen trees and Colorado adapted and native vegetation that focuses on aesthetics of color throughout all seasons.
- Interactive art sculptures for public use and enjoyment.
- Two Loveland, Colorado buff sandstone seating areas along County Line Road.
- Three water-usage turf demonstration plots, each approx. 10' x 10', using different types of grass: Kentucky Bluegrass, Blue Grama Grass, and Short Prairie Grass. Water usage required to maintain each will be shown on the botanical garden signage for education on water usage and conservation.

10.6.2.D.2.d Standards for Community Gateway Corridors – County Line Road

Applicant affirms their design complies with the criteria of this Section.

10.6.3 Parks, Open Space, and Trails

The small size of the subject property does not provide suitability for the development of Neighborhood parks per this and other sections of the Town Code. Applicant acknowledges the requirement to pay the Neighborhood Park Land and Construction Cost Fee as a substitute for this Section's requirements.

10.6.4 Landscaping, Screening, and Fencing

Applicant affirms their design complies with the criteria of this Section.

Applicant's design focuses on Xeriscape and low- to no-turf to the greatest extent possible. Applicant has designed a water-usage demonstration for the public view that will educate people on the greatly varied usage of water by certain types of grasses.

- Three water-usage turf demonstration plots, each approx. 10' x 10', using different types of grass: Kentucky Bluegrass, Blue Grama Grass, and Short Prairie Grass. Water usage required to maintain each will be shown on the botanical garden signage for education on water usage and conservation.

Applicant's Site Plan for the Development has exceeded the minimum landscaping requirements in all areas:

- Street Frontage Trees
    - County Line Road – 5 Trees Required; 10 Proposed

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    - Balcolm Street – 15 Trees Required; 19 Proposed
- 15% Gross Site Landscape/Native Requirement
    - Landscape Required – 17,825 square feet (15% of Gross)
    - Landscape Proposed – 20,945 square feet (17.5% increase over minimum standard)
- One Tree per 1000 Square Feet of Landscape
    - Trees Required – 21
    - Trees Proposed – 29 (38% increase over minimum standard)
- One Shrub per 150 Square Feet of Landscape
    - Shrubs Required – 140
    - Shrubs Proposed – 292 (109 increase over minimum standard)

Additionally, Applicant's Site Plan for the Triplex also exceeds the minimum requirements:

- 15% Gross Site Landscape/Native Requirement
    - Landscape Required – 1,402 square feet (15% of Gross)
    - Landscape Proposed – 3,789 square feet (170% increase over minimum standard)
- One Tree per 1000 Square Feet of Landscape
    - Trees Required – 4
    - Tree Proposed – 7 (75% increase over minimum standard)
- One Shrub per 150 Square Feet of Landscape
    - Shrubs Required – 25
    - Shrubs Proposed – 214 (756% increase over minimum standard)

10.6.4.E.8 – Minimum Landscaping Requirements: Parking Lots

Applicant affirms and complies with all on-site parking requirements for all proposed lots and units proposed. Parking lots are not required and have not been proposed.

10.6.4.G.3 – Outdoor Refuse/Recycling Collection

Applicant's Triplex Site Plan allows for outdoor storage of Refuse/Recycling receptacles on the side or in the alley area of each unit. This design standard is also indicative of the future duplex Site Plans for the proposed development.

10.6.4.G.8 – Outdoor Storage

Applicant has included submittal of the draft version of the HOA documents which exceed the minimum standards of screening and/or parking of non-principal use vehicles.

10.6.4.H – Fencing and Walls

Applicant affirms the proposed development complies with this Section and standard.

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10.6.5 – Transportation and Access Traffic Impact Mitigation

Applicant's development includes 10 duplex buildings (20 residential dwelling units) and 1 triplex building (3 residential dwelling units) located at 4060 County Line Road. The projected traffic volume for the residential development is expected to generate 200 vehicle trips over the course of an average weekday (vpd), including 15 vehicle trips per hour (vph) in the morning peak hour and 21 vph in the evening peak hour.

The adjacent street network has available capacity to accommodate the additional traffic anticipated from the proposed development.

The existing lot is currently vacant. Therefore, there are no trips generated from the existing use. Applicant has submitted a Traffic Trip Generation Letter as part of this land-use application, see Section 9m – Traffic Impact Study.

No bicycle facilities are proposed as all property as there are no community buildings proposed for the development.

10.6.6 – Off-Street Parking and Loading

Applicant affirms the proposed development complies with this Section and standard without the need for automatic Off-Street parking reductions in the Old Town Residential district. The off street parking of 2 per dwelling unit has been met, and, Applicant proposed street striping to encourage more efficient on-street parking.

10.6.7 – Residential Use Category Design Standards

In determining the type of residential use for the subject property, Applicant considered several housing types allowed within the OTR district, including but not limited to: Apartments, Mixed Use, Single-Family, and Multi-Family residential buildings ranging between 2-6 units. Applicant also conducted field surveys of all surrounding residential buildings and a broker's market analysis for home pricing in the Old Town district.

The outcomes of this effort and resulting research guided Applicant's decision to propose a development for paired (duplex) residential housing because it provides the highest level of compatibility and applicability with the adjacent Old Town properties in terms of size and price. Single family homes are not commercially feasible or marketable on the subject property due to the blight of the surrounding land use and overall, the much lower price points of adjacent properties when compared to a newly constructed single family home. Alternatively, Applicant considered multiple 4 to 6 unit row-house buildings but deemed such a layout as too intense when compared to the single-family layout of the surrounding area.

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Applicant's proposed plat designates that each unit within the development hold title as fee simple, meaning that the owner of each unit will control and hold title to their entire property including the land beneath and sky above. This type of land ownership is the most compatible title with the surrounding land use. The shared wall between units is often referred to as a party wall, and the terms and conditions for party walls are defined in the Erie Junction Homeowner's Association which is included in this submittal package.

Applicant's proposed unit size and livable square footage of each unit will range from 1,750 to 2,000 square feet above grade, not including basements, along with backyard space and detached garages to more closely align with the adjacent properties.

Applicant's proposed lot design of ten paired homes and one triplex building is estimated to price in the range of $500,000.00 to $650,000.00 per unit, depending on market costs, buyer demand and other key criteria. This estimated range is highly compatible to the recent closing values and estimated appraisal values of the surrounding single-family residential homes.

The triplex Site Plan included with this land-use application shows a varied roof line for each unit, yet still taking cues from the surrounding architecture of Old Town for use of brick, vertical siding, and a combination of shed and gable roofs.

Overall, the subdivision Site Plan proposes three different types of buildings, all of which were intended to provide for a high level of visual interest and distinctive character. In total, there are three types of buildings proposed by Applicant:

1.) Street-load Duplex (backing to County Line Road) – units
2.) Alley-load Duplex (interior buildings) – 14 units
3.) Triplex (Full Site Plan included herein) – 3 Units

For each building type above, Applicant proposes the following. Note that each proposed model will have its own unique street elevation:

1.) Street-load Duplex – Each unit will have its own unique model.
2.) Alley-load Duplex – Eight unique street models.
3.) Triplex – Each unit will have its own unique model.

Section 10.6.7.e.ii.B Architectural Variety: Duplexes/Stacked Tri-plex/Quad-plex/Manor

Applicant's proposed design standards exceeds the minimum requirements of 2 differentiating design methods for this standard through the use of the following construction styles. Please refer to the Triplex Site Plan for further detail:

- Three distinct color variations – Gray/Blue, White/Gray/Blue, and White/Gray
- Four distinct exterior material finishes: brick, vertical siding, horizontal board, and stucco

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- Three different architectural styles to roof lines and roof form: Gables, Shed, and Turned-Gable.
- Three different front porches.

Section 10.6.7.f Materials

Applicant's proposal, which is consistent with all Diverge Homes developments, utilize long-lasting, high-quality materials as detailed on the Triplex Site Plan and shown above. Applicant's buildings are proposed to exceed the current standard for energy efficiency per the standards of Xcel, resulting in a rebate to Applicant/Builder and a highly energy-efficient home for the Buyer.

Section 10.7.12 Site Plan

Applicant affirms and complies with this Section and standard.

A description regarding the status of mineral rights and the substance of any existing or proposed covenants, special conditions, grants of easements, or other restrictions applying to the proposed subdivision.

Mineral rights to the subject property are held by Crestone Resources. Erie Junction LLC is the leaseholder of interest and will retain such interest indefinitely. No special conditions or other restrictions are noted within the lease documents, all of which are attached herein in Section 5.

End of Written Narrative

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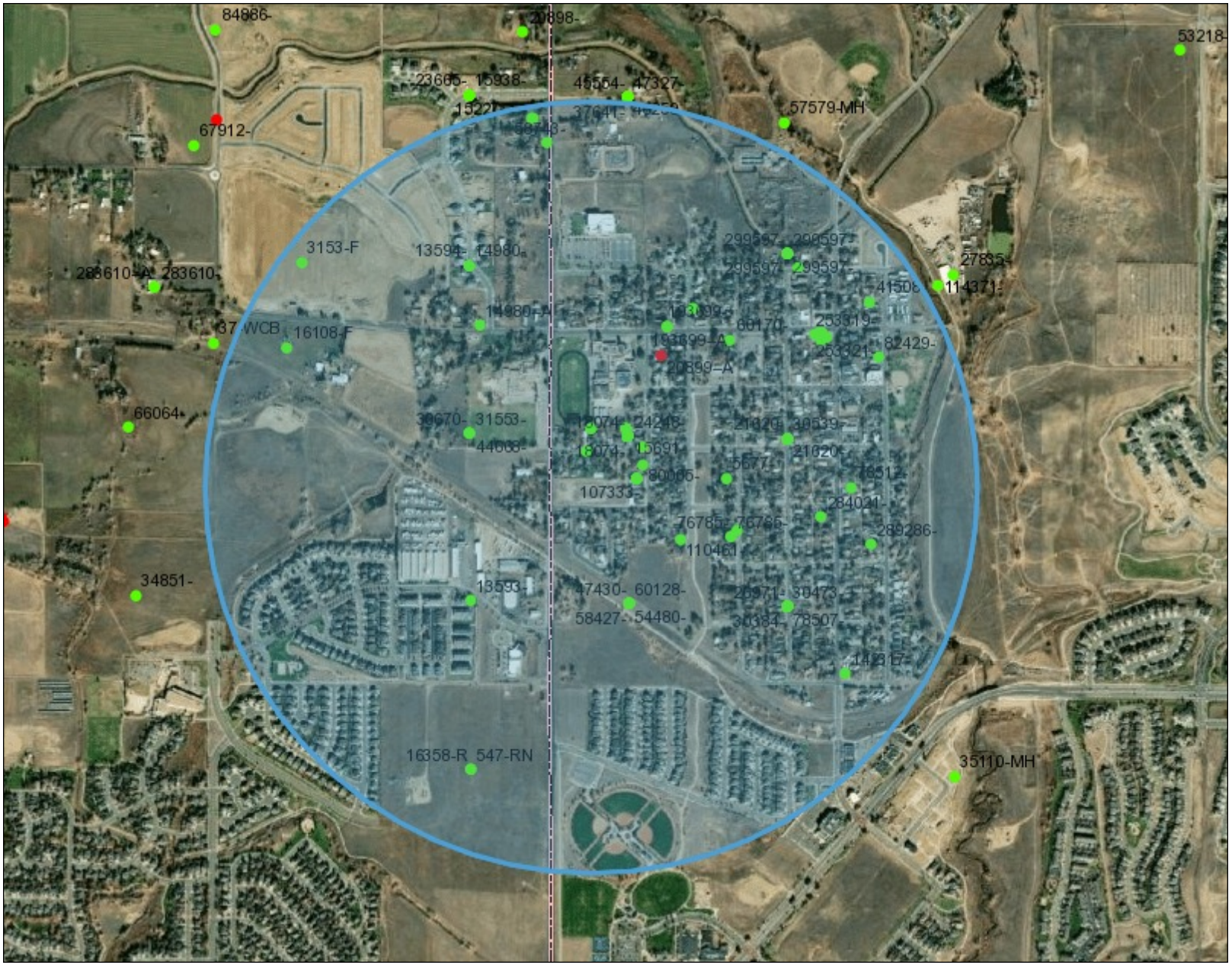
APPENDIX C

WELLS WITHIN ONE-HALF MILE OF THE SITE

COLORADO'S
Decision Support Systems
CWCB / DWR

Map Viewer



Legend

- Well Constructed
- Well Abandoned
- County

Location

Notes

2,339 0 1,169 2,339 Feet

1: 14,032

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Date Prepared: 8/24/2021 11:40:56 AM

Constructed Wells Within One-Half Mile of 4060 County Line Road

Permit	Current Status	County	Township	Range	Section	Q160	Q40	Latitude	Longitude	Use	Permit Issued	Date Constructed	Depth	ApplicantName
16108-F	Well Constructed	Boulder	1 N	69 W	13	NE	SW	40.051271	-105.062827	Irrigation	1952-29-02	02/29/52	90	BLAIR, HOWARD D & BONNIE M
3153-F	Well Constructed	Boulder	1N	69 W	13	NE	SW	40.051947	-105.062886	Irrigation	05/14/61	05/14/61	97	SCHMIDT, FRED JR & SUE OWEN
44668-	Well Constructed	Boulder	1 N	69 W	13	SE	NE	40.049284	-105.057768	Domestic	03/03/71	03/03/71	40	KAUMP, HAROLD K
30670-	Well Constructed	Boulder	1 N	69 W	13	SE	NE	40.04904	-105.055638	Domestic	05/03/67	05/03/67	55	ERIE ELEMENTARY SCHOOL
31553-	Well Constructed	Boulder	1 N	69 W	13	SE	NE	40.04904	-105.055638	Domestic	05/03/67	05/03/67	55	ERIE ELEMENTARY SCHOOL
14980--A	Well Constructed	Boulder	1 N	69 W	13	SE	NE	40.051607	-105.057493	Domestic	02/27/89	02/10/89	35	BARTEE, ALLEN
13594-	Well Constructed	Boulder	1 N	69 W	13	SE	NE	40.052909	-105.057784	Domestic	11/06/62	11/06/62	62	DEVISSCHER, A
14980--A	Well Constructed	Boulder	1 N	69 W	13	SE	NE	40.057493	-105.057493	Domestic	02/27/89	02/10/89	35	BARTEE, ALLEN
14980-	Well Constructed	Boulder	1 N	69 W	13	NE	SE	40.052909	-105.057784	Domestic	02/27/89			MILLER, ANDREW
58743-	Well Constructed	Boulder	1 N	69 W	13	NE	NE	40.055554	-105.055608	Domestic	04/20/72	02/21/74	47	WIGGETT, HAROLD C
245642-	Well Constructed	Boulder	1 N	69 W	13	NE	NE	40.056077	-105.056007	Domestic	11/05/02		28	CHADWICK, CAROL I
245643--A	Well Constructed	Boulder	1N	69 W	13	NE	NE	40.056077	-105.055996	Domestic	11/05/02	12/09/02	40	CHADWICK, CAROL I
13593-	Well Constructed	Boulder	1 N	69 W	13	SE	SE	40.045659	-105.057753	Domestic	11/27/62	11/27/62	50	GUSTAFSON, HAROLD
16358-R	Well Constructed	Boulder	1 N	69 W	24	NE	NE	40.042021	-105.057736	Irrigation	12/29/61	08/30/46	225	LUMRY, ELLEN R
547-RN	Well Constructed	Boulder	1 N	69 W	24	NE	NE	40.042021	-105.057736	Domestic	08/01/46	08/01/46	225	LUMRY, ELLEN R
47430-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Domestic	07/20/71	07/20/71	60	WOODMAN, LA
58427-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Irrigation	04/20/72	05/24/72	50	MATHEWS, HOWARD
60128-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Domestic	05/05/72	05/19/72	50	TITTLE, WILLIAM J
54480-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Domestic	03/29/72	05/25/72	50	BEIRLE, ARNOLD J
333-WCB	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Irrigation	05/17/55	05/10/95	32	WEBB, GEORGE
47585-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Domestic	07/23/71	07/23/71	50	WILSON, FRED R
58742-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Domestic	04/24/72	05/09/72	51	MAZZINI, ADDELEN
766-WCB	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.045597	-105.05329	Irrigation	05/18/56		44	FOREMAN, FRED
142317-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.04408	-105.04717	Irrigation	12/18/85		40	ZABIELSKI MARILYN & LAMAR
30476-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.045534	-105.048824	Domestic	04/16/67	04/13/67	20	MUNOZ, SANTOS
78508-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.045534	-105.048824	Domestic	04/01/75			SWOPE, STELLA M
30477-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.045534	-105.048824	Domestic	04/16/67	04/13/67	40	GONZALES, DEANNA L.
30473-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.045534	-105.048824	Domestic	04/16/67	04/09/67	41	MONARES, HENRY
26971-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.045534	-105.048824	Domestic	04/26/66	04/29/66	40	LEWIS, MERLE
30384-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.045534	-105.048824	Domestic	04/09/67	04/07/67	38	ROBERTS WILLIAM
110461-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.046988	-105.051827	Domestic	08/09/79	08/09/79	40	BAKER, LEROY J
76785-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.047043	-105.050396	Domestic	09/23/74		30	SMITH, NEIL
110461-	Well Constructed	Weld	1 N	68 W	18	SW	SW	40.046988	-105.051827	Domestic	09/20/79	08/09/79		BAKER, LEROY J
68957-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.047178	-105.050221	Domestic	05/22/73	07/23/73	45	RICHARDS, GREGORY S & DONNA A
289286-	Well Constructed	Weld	1 N	68 W	18	SE	SW	40.046873	-105.046469	Irrigation	09/04/12		25	CANADAY, NOREEN
785212-	Well Constructed	Weld	1 N	68 W	18	NE	SE	40.049159	-105.048832	Domestic	03/01/75	06/01/53		TREMBATH, WILLIAM K & MARGARET J.
5677-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.049222	-105.053302	Domestic	04/26/60	04/27/60	53	MCALLISTER, WM
284021-	Well Constructed	Weld	1 N	68 W	18	SW	SE	40.047296	-105.04736	Domestic	09/14/10		30	CADWELL, ROBB
107333--A	Well Constructed	Weld	1N	68 W	18	SW	NW	40.048312	-105.053047	Domestic	04/21/80	10/01/80	53	LOUIS ANDREW D.
107333-	Well Constructed	Weld	1N	68 W	18	SW	NW	40.048312	-105.438053	Domestic	06/13/79	12//12/1930	32	LOUIS ANDREW D.
8005-	Well Constructed	Weld	1N	68 W	18	SW	NW	40.048582	-105.052906	Domestic	07/21/75	05/08/05	30	MILLER, RUBY & THELBERT
44421-	Well Constructed	Weld	1N	68 W	18	SW	NW	40.048915	-105.054478	Domestic	02/10/71	05/09/56	49	ST VRAIN VALLEY SCHOOL DIST
89240	Well Abandoned	Weld	1N	68 W	18	SW	NW	40.048997	-105.052907	Domestic	03/30/77	06/07/77	30	KOBOBEL, ALLAN E
89240--A	Well Constructed	Weld	1N	68 W	18	SW	NW	40.048997	-105.052907	Residential	03/30/77	06/07/77	40	KOBOBEL, ALLAN E

18074-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	11/20/63	11/19/63	48	DEYOUNG, BRUCE
15691-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	06/04/63	06/05/63	50	GLOVER, ARTHUR
18074-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	11/20/63	11/19/63	48	DEYOUNG, MICHELE
19751-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	05/14/64	05/14/64	50	CASTRO, RALPH
24248-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.048915	-105.054478	Domestic		06/02/65	48	ERIE SCHOOL DISTRICT
18074-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	11/20/63	11/19/63	48	DEYOUNG, MICHELLE
769-WCB	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Stock	06/04/56	05/25/56	54	ELZIE, CHARLES
30475-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	04/26/67	04/13/67	41	MCWILLIAMS, JD
23673-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	05/05/65	05/26/65	39	KOBOBEL, BILL
30541-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	04/20/67	04/29/67	48	FOREMAN, FRED
16892-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	08/09/63	08/29/63	50	GREEN, ROBERT D
15088-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	05/06/63	05/08/63	53	WRIGHT SISTERS
20899-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	07/24/64	07/24/64	50	BROWN, CARL
18934-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	07/24/64	07/24/64	50	MAY, HARVEY F
767-WCB	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Irrigation	05/01/64	05/13/56	44	SHAW, ROBERT
55848-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Domestic	04/05/72	07/25/72	321	GHUMM JOHN JR & MARY A
768-WCB	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Irrigation	05/21/56	05/18/56	44	GRAHAM, GEORGE
765-WCB	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049222	-105.053302	Irrigation	05/18/56	05/16/56	44	ALEXANDER CJ
54774--A	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049392	-105.054361	Domestic	12/16/16	04/03/17	35	BERMAN, RICH
54774-	Well Constructed	Weld	1 N	68 W	18	SW	NW	40.049392	-105.054361	Domestic	04/22/72	03/31/72	40	BERMAN, RICH
21620-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic	09/18/64	09/21/64	52	GREEN, ROBERT D
30539-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic	04/27/67	05/17/67	53	ERIE METHODIST CHURCH
21620-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.051657	-105.046308	Domestic		07/02/64	50	ERIE CEMETERY ASSOC
20499-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic		04/07/67	40	SMITH, CAROLINE D.
30668-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049093	-105.044116	Domestic		04/18/67	41	SWENSON, ROBERT
30474-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic	04/17/67	04/11/67	41	PAYNE, ALBERT G.
30335-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic	04/06/67	04/07/67	45	MCDONALD, GERTRUDE
59821-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic	05/03/72	05/31/72	50	CORDOVA, SANTIAGO E.
21522-	Well Constructed	Weld	1 N	68 W	18	SW	NE	40.049159	-105.048832	Domestic	09/15/64	09/10/64	52	JABOT, CHARLES
20899--A	Well Abandoned	Weld	1 N	68 W	18	SW	SW	40.050952	-105.052392	Domestic	07/01/15		35	ARCHDIOCESE OF DENVER
60170	Well Constructed	Weld	1 N	68 W	16	NW	SE	40.052911	-105.010931	Domestic	05/05/72	05/02/73	24	CANADAY, ARCHIE R
82429-	Well Constructed	Weld	1 N	68 W	18	NW	SW	40.050927	-105.046249	Domestic	03/31/63	03/31/63		MARTINEZ RICHARD & EMMA L
253319-	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.051413	-105.048055	Monitoring/Sampling	10/06/03	08/12/03	15	HEPP, CHARLES
52182-MH	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.051422	-105.048008	Monitoring/Sampling	01/21/14	01/15/14	16	DEPT OF LABOR & EMPLOYMENT
53592-MH	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.051458	-105.047926	Monitoring/Sampling	04/16/15	04/22/15	15	CDLE DIVISION OF OIL & PUBLIC SAFETY
253320-	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.051458	-105.047844	Monitoring/Sampling	10/06/03	08/12/03	15	HEPP, CHARLES
253322-	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.051368	-105.047703	Monitoring/Sampling	10/06/03	08/12/03	15	HEPP, CHARLES
253321	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.051287	-105.047855	Monitoring/Sampling	10/06/03	08/12/03	15	HEPP, CHARLES
193699-	Well Constructed	Weld	1 N	68 W	18	NW	SW	40.051592	-105.052205	Domestic	03/21/96	01/01/37		FINGERSON, MARK L
193699--A	Well Constructed	Weld	1 N	68 W	18	NW	SW	40.051592	-105.052205	Domestic	03/21/96	05/14/96	40	FINGERSON, MARK L
229638-	Well Constructed	Weld	1 N	68 W	18	NW	SW	40.05197	-105.05149	Irrigation	10/25/00	01/01/50	25	GUTIERREZ ROBERT L
42425-MH	Well Constructed	Weld	1 N	68 W	18	NW	SE	40.052855	-105.048537	Monitoring/Sampling	08/05/03	08/12/03	15	HEPP, CHARLES
299597-	Well Constructed	Weld	1 N	68 W	18	NW	SW	401.05315	-105.04883	Domestic	12/03/15	01/01/68	18	NORTON, VAN

APPENDIX D

MATERIALS MANAGEMENT PLAN

CTL|THOMPSON

50 YEARS

FOUNDED IN 1971

MATERIALS MANAGEMENT PLAN
4060 COUNTY LINE ROAD
ERIE, COLORADO 80516

Prepared for:

DIVERGE HOMES
603 South Public Road Unit 765
Lafayette, Colorado 80026

Attention: Mr. Nick Jacobs

Project No. FC10041.000-216-R2

September 27, 2021

1971 West 12th Avenue | Denver, Colorado 80204 | Telephone: 303-825-0777 | Fax: 303-825-4252 | www.ctlt.com

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SECTION 1.0
INTRODUCTION

This Materials Management Plan (MMP) has been developed by CTL | Thompson, Inc. (CTL) on behalf of Diverge Homes to outline preventive measures and guidelines for managing subsurface materials that may be encountered during redevelopment activities at 4060 County Line Road in Erie, Weld County, Colorado (the Site). The Site is owned by Erie Junction, LLC.

This MMP is not intended to address asbestos. If suspect asbestos materials are encountered, work will be stopped and Section 5.5 of the CDPHE Solid Waste regulations shall be followed.

CTL has conducted environmental investigations at the Site. The most recent Limited Phase II ESA was performed by CTL under our Project Number FC10041.000-205-L1 and dated August 9, 2021. Our investigations indicated that soils contain levels of PAHs well below Residential RSLs. Arsenic was detected in concentrations which exceeded the EPA RLS for residential soil; however, these concentrations did not exceed CDPHE guidance document standards/recommendations. Other RCRA metals were not identified in concentrations that exceeded the EPA RSLs for residential soil where a clear standard is provided.

Two previous Limited Phase II ESAs were conducted by CTL on the Site under our Project Number FC05859.001-205 and were dated April 2012 and September 2012. These studies indicated that petroleum hydrocarbon contamination was limited to the interior of the pre-cast concrete building. The September 2012 investigation determined that oil-contaminated soil within the former pre-cast building appeared to be limited to the area of the trench and at depths of less than 10 feet immediately north of the east end of the trench. Groundwater under the building contained low levels of toluene, at concentrations well below Colorado groundwater standards.

1.1 Site History and Description

According to historical aerial photographs, the Site has been in agricultural use from at least the late 1930s until it was developed with a large warehouse building in the early 1970s for

a pre-cast concrete construction business. The building was present on-Site until the late 2010s. The Site is now vacant land in a naturally vegetated state.

1.2 Potential Risk from Subsurface Contaminants at the Site

Based on environmental investigations conducted by CTL and others, potential risks have been identified. The potential risks include:

- Petroleum impacts to soil were discovered in the location of the former pre-cast concrete warehouse building, although concentrations were determined to be at concentrations less than the RSLs.
- Groundwater beneath the building contained low levels of toluene at concentrations well below Colorado groundwater standards. Future use of the Site does not include the use of groundwater.

Future development of the Site includes a twenty-three (23) unit residential development with associated above ground parking areas and landscaping. All residential structures will have radon mitigation systems. The excavations planned for Site redevelopment will be minimal. Groundwater has not been encountered at the Site to depths of approximately 20 feet; petroleum-impacted groundwater, if present, is not expected to be encountered during Site redevelopment.

SECTION 2.0

MATERIAL MANAGEMENT PLAN GOALS

The goals of this Material Management Plan are:

- To establish procedures for assessing excavated materials that are potentially impacted with petroleum products or other contaminants, and;
- To provide for documentation of the observation, assessment, characterization, and disposal activities, should impacted soils be encountered during redevelopment activities.

2.1 Proper Management of Exposed Subsurface Material

The project will involve some excavation into the subsurface, although impacted soils are not expected to be encountered as they were limited to depths of less than 10 feet bgs. Note that worker and Site visitor health and safety guidelines and requirements are the responsibility of the Contractor performing the excavation work. The Contractor shall develop and adhere to a Health and Safety Plan (HASP) developed for the Site and work being performed. The HASP should comply with Occupational Safety and Health Administration (OSHA) regulations, 29 Code of Federal Regulations (CFR) 1910.120.

SECTION 3.0
AFFECTED ACTIVITIES AND RESPONSIBLE PERSONNEL

For the purpose of this MMP, the "Project" is defined as all property that will be disturbed as part of the Site, located at 4060 County Line Road in Erie, Weld County, Colorado. All activities within the Project shall be subject to the conditions and requirements of this MMP. These activities are expected to be performed by outside contractors (these entities are referred to generically as "Operators" in this Plan). In the sections that follow, examples of the types of intrusive activities that can be performed by these Operators are discussed, as well as the titles and responsibilities of key personnel.

3.1 Affected Activities

Any intrusive work to be performed for the Project must follow the requirements and procedures of this MMP. For the purpose of this MMP, intrusive work is defined as any and all activities that result in disturbance of fill materials, generally expected to be limited to excavation/grading and utility installation.

3.2 Responsible Personnel

The following sections describe the titles and responsibilities of key personnel who oversee and implement this MMP.

3.2.1 Program Monitor

The Program Monitor shall be a designated person of the outside Contractor who monitors the public health issues associated with this MMP, acts as a liaison with regulatory entities on regulatory matters, serves as a point of contact for employee concerns related to risks to individual workers, and handles public inquiries regarding health concerns related to the Site. This person may or may not be the contractor's existing, in-house Safety Coordinator. The Program Monitor will be selected prior to construction activities at the site.

3.2.2 Work Supervisor

Work Site compliance with the requirements of this MMP rests with the Work Supervisor. The Work Supervisor will be an employee of the outside Contractor and will be selected prior to construction activities at the Site. Specific responsibilities of the Work Supervisor include:

- Compliance with this MMP.
- Communication of the requirements of this MMP to the work crew.
- Providing a brief informational presentation to all members of the assigned work crew.
- Forwarding applicable Site compliance records to the Program Monitor.

3.2.3 Field Materials Management Representative/Environmental Representative

The Owner shall appoint or retain at least one Field Materials Management Representative (Field Rep) for oversight during work performed for the Project. This person or persons can also be known as the Environmental Representative or Environmental Professional. At this time, the Field Rep(s) will be an environmental technician or scientist from CTL. The Field Rep(s) will have the ability to:

- Observe work activities relating to the proper management of exposed subsurface materials should they be determined to be impacted with petroleum products, and;
- Advise that the Contractor stop operations when conditions change to ensure that materials management procedures are adequate.

The Field Rep(s), by a combination of education, work experience, and supplementary training shall have the following minimum qualifications:

- Two or more years of experience in the physical sciences, engineering, or a health-related field.
- Completion of 40-hours of OSHA general training in accordance with 29 CFR 1910.120 (“Hazardous Waste Operations and Emergency Response”) and possession of certification thereto, including annual maintenance of certification.
- Participation and certification of Medical Monitoring in accordance with 29 CFR 1910.120.

The responsibilities of the Field Rep(s) are:

- Oversight of management of excavated materials that are suspected to be impacted with petroleum products, and;
- To compile written documentation of impacted material handling and disposition. This information shall be maintained by the contractor.

Field Rep: Christine Whitacre
CTL | Thompson
303.626.7540
CWhitacre@ctlthompson.com

We note that at this time, the Field Rep, given our current project understanding, is not expected to be on-Site every day during excavation activities, but on a part-time/as-needed basis sufficient to document excavation activities and general adherence to this MMP. The Field Rep is expected to gather information sufficient to support the submission of a No Action Determination application at substantial completion of excavation activity. The duration and frequency of visits will be determined in conjunction with the Site owner. The involvement and/or the qualifications/experience of the Field Rep could potentially change if unexpected items are encountered (e.g. an underground tank, suspect-asbestos debris that triggers requirements under Section 5.5 of the Solid Waste Regulations, etc.).

3.2.4 Record Keeping

The Program Monitor shall maintain complete file documentation of all environmental, health, and safety activities conducted on the Site. Examples of documentation include Site Monitoring Records, Worker Exposure Records, daily records of the Field Rep(s), laboratory results of debris and media encountered during the project, and Waste Disposal Manifests.

SECTION 4.0
EXCAVATION PROCEDURES

This Section discusses the following:

- Waste management methods and procedures for managing and/or disposing of excavated petroleum-impacted materials and preventing contaminant spread; and,
- Decontamination procedures for personnel, sample equipment, and heavy equipment as related to such excavations.

It shall be the responsibility of the Operator to prepare a Site-specific HASP. A HASP is typically required when proposed work activities are likely to encounter contaminated soil or landfill materials. Compliance with the HASP will be the sole responsibility of the Operator. It will also be the responsibility of the Operator to ensure that all workers assigned to the permitted work effort have received adequate training in accordance with 29 CFR 1910.120.

The Work Supervisor shall provide a brief informational presentation to all members of the assigned work crew prior to work initiation discussing the major aspects of this MMP, specifically the reasons for the procedure, operational considerations, and materials handling procedures.

Upon completion of the presentation, each member of the work crew shall sign an affidavit (Worker Affidavits) attesting to his/her awareness and understanding of the procedures.

The Field Rep(s) may observe and document field activities through and including disposition (removal from the Site) of materials encountered. The Field Rep(s) shall have the authorities and responsibilities as defined in Section 3.2.3 of this document.

4.1 Work Site Photograph Documentation

Photographs of the Site may be taken prior to, during, and after completion of work, at the discretion of the Field Rep(s). If photographs are taken, they will be logged in an appropriate form (i.e., notebook, logbook, later saved electronically) and will include the contents of the photograph, date of photograph, and any other pertinent information.

4.2 Observation of Special Conditions During Excavation

In cases where intrusive work is performed, the Work Supervisor and Site workers need to be aware of special conditions that may trigger changes to materials management at the Site as well as the health and safety precautions being employed. Groundwater is not expected to be encountered during the excavation process. These special conditions may include, but not be limited to:

- Unusually stained soils or soils with unexpected chemical (non-petroleum) odor;
- Tanks, drums, cans, or other bulk containers potentially containing chemicals;
- Building materials other than concrete (with no materials adhered), asphalt, or brick.

If these conditions are encountered, excavation will stop immediately, and the Field Rep(s) will be notified if he/she is not already observing. The Field Rep(s) will in turn notify the Supervisor and Project Monitor if these individuals are not already aware. The Field Rep(s) will advise/recommend the actions to be taken at the Site, which may include, but not be limited to:

- Segregation and/or restricting access to the items(s) in question;
- Sample collection and analysis, such as to better determine what the contaminant is, does it meet hazardous waste criteria, or is the excavation now clear of ("out of") the contaminant;
- Additional work-site documentation, such as obtaining photos, GPS coordinates, and depth of the item or condition.

Modifications that may be warranted to the health and safety precautions being employed at the Site are the sole responsibility of the Operator. The Operator may elect to modify the Site-specific HASP based on the observed conditions. In addition, the Operator may elect to collect additional samples for clarification of proper health and safety requirements during the Project.

4.3 Solid Material/Waste Management

This MMP assumes current redevelopment plans may include the removal of soils from the Site. Petroleum-impacted soils remain at the Site at depths of at least 10 feet bgs. If suspect materials are encountered during excavation, additional sampling may be conducted to determine if the material can be disposed of in a non-hazardous landfill or will require disposal in a special or hazardous waste landfill.

Given previous uses, excavated material could include, but not be limited to, the following items:

- Soils, potentially containing petroleum contaminants; and,
- Containers and receptacles, with or without contents.

One of the roles of the onsite Field Rep(s) will be to assist in the management and designation of the waste. The Field Rep(s) may periodically request work stoppage to better identify soils, liquids, or debris. A Subtitle D Landfill is permitted to accept the following wastes, among others:

- Common (non-hazardous) household wastes
- Non-hazardous commercial waste, farm, or agricultural waste
- Municipal solid waste
- Construction debris
- Concrete and asphalt
- Yard waste, tree branches
- Clean fill or soil, and

- Non-hazardous industrial waste, such as petroleum impacted soil, provided TCLP Benzene and other required testing parameters are met for the landfill.

In general, waste materials that do not fit the above categories of wastes accepted by a Subtitle D Landfill will be segregated, characterized for disposal, and disposed of at an appropriate offsite facility based on the waste characterization. The final disposal may or may not include a Subtitle D landfill.

If materials are to be removed from the Site to be reused elsewhere, or taken to an inert / rubble landfill, they must meet the following criteria:

- No visible staining or discoloration
- No odors
- Free of debris and other solid waste
- Free of mastic, tar, or other adhering building materials.
- In the case of re-use, the material must be sampled for laboratory analysis and deemed suitable for such use/disposal. The constituents analyzed for will be determined by the Field Rep(s) but will include, at a minimum, TPH by Method 8015M and BTEX by Method 8260.

4.4 Screening and Assessment of Waste

The Field Rep(s) will use a Photoionization Detector (PID) and be experienced at using olfactory and visual cues to identify chemical contaminants, such as petroleum impacts. Also, the waste will be observed for the presence of chemical containers, suspect asbestos, and other wastes not accepted by a Subtitle D Landfill. Wastes that are not accepted by the landfill will be segregated and stockpiled for further assessment, characterization, and offsite disposal at an appropriate facility.

The Contractor will be ready to provide a six-millimeter polyethylene liner, and/or a leak-proof dumpster/roll-off container, onto or into which segregated wastes can be temporarily stockpiled. At the end of each workday, if necessary, the contractor shall cover and secure the segregated wastes with a six-millimeter polyethylene sheet, as needed. The Field Rep(s) will observe

the excavation and may at times request the excavator to place waste materials onto six-millimeter polyethylene sheeting for waste characterization. In addition, the Field Rep may at times monitor the ambient air near the excavator bucket using a PID.

4.4.1 PID Readings

PID readings less than 10 parts per million (ppm) are not unusual and can be indicative of vehicle exhaust and other factors, so low PID readings alone should be interpreted with some discretion by the Field Rep(s). This MMP does not state a threshold where action should be taken based on PID readings. The PID readings and Site conditions will be considered together by the Field Rep(s) in making interpretations as to whether air conditions are potentially hazardous.

4.4.2 General Assessment and Segregation Procedures

Drums, oil/water separators, containers, and other special items may be encountered, although it is unlikely. If any such items are encountered within the excavation, a multiple step assessment will be performed:

1. The Field Rep(s) will assess containers, in-situ, for likely chemical content based on labeling, container type/shape, observation of contents, etc. Potentially contaminated soils will be assessed based on nearby chemical containers, if present, or based on field screening observations.

2. The Field Rep(s) will otherwise attempt to identify, if possible, the nature of the item.

3. The Field Rep(s) will use a PID to measure ambient air at (or as close as safely possible) the location for volatiles.

4. If the condition of a container or item can be assessed in place, the Field Rep(s) will note the condition of the object, evidence of releases, etc. If a container appears to be actively leaking, it will not be removed until a suitable overpack container is available for containment.

5. Sampling may be required by the Field Rep(s) if, after instrument readings, observation, and other factors, the Field Rep(s) determines that they can obtain a sample safely.

6. The Field Rep(s) will observe and document whether releases, if any, appear likely to have impacted soils or other wastes around or below the container or item. If a

suspected release has occurred, the extent of the release will be assessed by excavating around the point of the release. Where contaminated soils are observed, it will be assumed that the soils have been impacted by containers located physically above or adjacent to the location of the observed contamination, regardless of the presence of visible leakage from each container.

7. The location will be measured from a fixed reference point and plotted on a scaled drawing and by GPS; if it is practical, the location will be marked in the field with flagging or stakes.

8. The Field Rep(s) will take photograph(s) documenting the location and general condition of the feature.

9. If in the judgment of the Field Rep(s), the container or other item can be moved safely, the Field Rep will request the excavator to place the waste material onto the lined staging area.

10. Containers and other special items will be segregated based on general waste types, media, and waste disposal requirements (e.g., Petroleum contaminated soil would be segregated into a separate stockpile from soils excavated below a leaking drum of chlorinated solvent).

11. A local Subtitle D Landfill may need to be contacted when encountering unknown items, for guidance on characterizing and segregating items for disposal.

12. At no time shall unknown containers or other items, which are sealed and have the potential to contain a hazardous substance or create a hazardous condition, be assumed to be non-hazardous and combined with soil or non-hazardous debris to be disposed.

4.4.3 Potentially Hazardous Waste Containers

If potentially hazardous waste containers are identified, they will be segregated and stockpiled on six-millimeter polyethylene sheeting. If the container is leaking, it will be placed in an overpack drum. If the content of the container is clearly marked, that information will be used to characterize the waste for disposal. If the waste is a listed hazardous waste, it will be profiled for disposal based on its hazardous waste listing. If the waste content is not marked, and the container can be sampled safely, a sample will be obtained and analyzed for one or more of the following hazardous waste characteristics, based on field observations:

- Ignitability;
- Corrosivity;
- Reactivity;

- Toxicity Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals.
- In the absence of usable field observations on the waste container, the waste sample will be analyzed for all of the above waste characteristics.
- If a waste container appears to be reactively unstable, it will not be moved until a hazardous waste contractor is retained to stabilize the container. Then, the container will be sampled.

The results of the waste characterization sampling and analysis will be used to prepare a waste profile. If the waste is a listed or characteristic hazardous waste, it will be disposed of by a hazardous waste contractor at an approved hazardous waste disposal facility. The waste characterization may take one week for laboratory results and one additional week for landfill approval.

If the waste characterization for a container determines that the waste is not hazardous waste, the waste will be profiled for disposal and, upon landfill approval of the profile, will be transported to a local landfill for disposal.

4.5 Liquid Waste Management

Waste containers that are not deemed to be potentially hazardous waste containers, but which contain free liquids, will be segregated for solidification by a hazardous waste contractor to be retained by the Owner. The liquid waste will be solidified using an industry standard method. Following solidification, the waste will be transported to a local landfill to be disposed of as solid waste. It is not anticipated that groundwater will be encountered during the excavation/development activities. In the event that groundwater is encountered, wastes will not be disposed of if they contain free liquids.

4.6 Reduction of Contaminant Spread

Contaminants may spread from the active work area to surrounding areas through a variety of mechanisms which include, but are not limited to, migration of dust containing chemicals, movement of particulate matter in water, and physical removal from the site on worker's clothing, work vehicles, or other direct mechanisms. Every effort will be made by the Operator to prevent the spread of contaminated or potentially contaminated materials from the controlled area. The

Operator's Site-specific HASP will provide guidelines to prevent the spread of contamination or potentially contaminated materials from the work area.

Decontamination procedures can be used to prevent the spread of contamination from the work area. Proper decontamination procedures for personnel and heavy equipment will be followed. The procedures will depend upon the level of personal protective equipment employed, and the types of materials encountered during the performance of the work. In general, this will mean that personnel will wear disposable nitrile gloves and booties over their work clothing when coming into contact with known or suspected chemical contaminants.

Back-hoe buckets and other exposed components of heavy equipment will be rinsed off into the excavation where the contaminants are already inherently present, before proceeding into less-suspect areas. The need and degree of rinsing will be at the discretion of the Field Rep(s).

Although not anticipated to be common, the Field Rep(s), in rare cases (such as when dealing with a previously undocumented, hazardous type of contaminant), may request that wash-water or other materials generated during the decontamination process be properly containerized, and disposed into drums or other containers for special disposal.

4.7 Limitations

This document contains limited information on OSHA compliance. This plan is not intended to be used for OSHA compliance and does not contain information on all possible OSHA issues, including but not limited to, fall protection, ladder safety, respiratory protection, and proper use of PPE, etc. In conformance with this plan, the Contractor shall develop and implement its own Health and Safety Plan and shall be responsible for all aspects of OSHA compliance.

If you have any questions, or need additional information or assistance with this Plan, please feel free to call (303) 825-0777.

Sincerely,

CTL | THOMPSON, INC.

Christine Whitacre
Environmental Scientist

Reviewed by:

Matthew L. Wardlow, P.E.
Environmental Department Manager

CMW:MLW/nn

Via e-mail: nick.jacobs@divergehomes.com

APPENDIX E

RESUMES

Resume

Chrissy Whitacre

Environmental Technician

Office Location

Denver, Colorado

Years of Experience

1 Year

Education

B.S. Environmental Science
DePaul University
2010

Ms. Whitacre joined CTL | Thompson in 2018 as an Engineering Field Technician for the Soils Department. Her past background includes plant identification and habitat remediation. Her current responsibilities include Phase I Environmental Site Assessments and Biological Evaluations.

Project Experience

CTL/Thompson
Field technician managing soil inspections on construction sites, pier observation, pre-construction meetings, and field one-points to determine soil compaction curves; various projects, Colorado Front Range

Wetland Delineation, Gallegos Property, Mead, CO

Phase I ESA, Stapleton Northfield, Denver, CO

Phase I ESA, Legacy Ridge, Elizabeth, CO

Phase I ESA, 6985 East Chenango Avenue, Denver, CO

Chicago Botanic Garden, Chicago Il
Assisted in the evaluation of plants for green roofs, and planting trials. Maintained a photographic database of plants for documentation.

Invasive Buckthorn Project, Chicago, Il
Assisted in the transformation of a habitat degraded by buckthorn into an outdoor laboratory, and the study of best methods to repair degraded habitats.

SOYFACE Research Intern, Champaign, Il
Assisted in research on crops gown under elevated carbon dioxide and ozone levels, maintenance of research facility and assistance with grant writing.

Rocky Mountain Catering, Denver, CO
Worked with a production team and families to put together weddings, and managed a staff to execute events.

Matthew L. Wardlow, P.E.

Environmental Department Manager

Office Location
Denver, Colorado

Years of Experience
20 Years

Professional Registration
Registered Professional Engineer: Colorado

Education
B.S. Engineering and Policy, Washington University, St. Louis, MO, 1993

Training & Certifications
40 Hour OSHA Training

Confined Space Training

Mold Remediation Technician

Training Principals of Forced Air Remediation

Asbestos Inspector
Air Monitoring Specialist
Designer

Professional Affiliations
American Society of Civil Engineers

American Society of Foundation Engineers

Colorado Environmental Management Society

Urban Land Institute

Mr. Wardlow has a variety of technical expertise in Phase I and II Environmental Site Assessments, CDPHE Voluntary Cleanup (VCP) applications, asbestos consultation, underground storage tank removals, site characterizations, and assessments under the National Environmental Policy Act. Mr. Wardlow reviews all environmental deliverables, making sure that the latest practices are followed. He has developed a reputation as a consistent and reliable consultant for his clients, which include the City & County of Denver, Auraria Campus and its colleges, and Boulder County. He encompasses a variety of project experience including brownfields, historical mine sites, medical facilities, and wastewater treatment plants.

Project Experience

Regency Athletic Complex at MSU Denver, Denver Colorado
2016 ACEC CO GRAND CONCEPTOR AWARD – Highest Engineering Honor
This former brownfield, located at the southern end of Auraria Campus, was the site of geotechnical and environmental issues from past industrial use. There was also the potential for settlement due to undocumented fill. Mr. Wardlow devised an idea using Deep Dynamic Compaction (DDC), which is a ground improvement technique that densifies the majority of soils and fills in-place by using a drop weight. CTL then provided on-site geotechnical and environmental inspection services, management of contaminants excavated, and also successfully entered the client into the State of Colorado Voluntary Cleanup Program. Measures were also taken to monitor air quality and vibrations from the impact. The solution was about 25% of the removal and replacement costs, and there has been no noticeable settlement.

Other Redevelopment/Voluntary Cleanup Projects:
Prepared Overall 2016 Auraria Campus Materials Management Plan
New Breckenridge Brewery – VCP – Remediation of Pesticides
Community College of Denver Confluence Building
Metro State Hotel and Hospitality Learning Center
Metro State Student Success Building
AHEC 5th Street Parking Garage – VCP – Coal Ash and Asbestos
Gold Hill Mesa - VCP - Subdivision Constructed on Mine Tailings
4th and Santa Fe – VCP Remediation of Chrome Plating Site
ConocoPhillips - Purchase/Redevelopment of 400-acre StorageTek

Other Major Projects and Clients
Denver Department of Environmental Health - 20+ P1 and P2 ESAs
CDOT - Over 30 Asbestos Surveys, Air Clearances of Buildings
Land Developers - Due Diligence Studies and SWMP Consultation
Urban Land Conservancy - P1 and P2 ESAs, IAQ Concerns
CU Boulder - Asbestos Consultant - Ketchum Hall, Hallett Hall
Homebuilders - Due Diligence, Mold and Moisture Consultation
Boulder County Risk Management - On-Call Industrial Hygienist
Boulder Valley School District - On-Call Asbestos Consultant
Regis University - P1 ESA of 7 Parcels of Campus