

Committed to Ending Poverty_ Utah Community Action

Request for Bid

For UCA Magna EHS Classroom Addition 2024

Question & Answers

- 1. In reading through the document, on page 2 it states the pre-bid is non-mandatory and on page 5 it states the pre-bid is mandatory. Can you clarify?
 - a. Yes, this pre-bid meeting was mandatory
- 2. On page 4 under the Community Action Address, it states that "Proposals can be submitted via hard copy or electronic copy to the address provided below." I'm wondering if there is an email address where you want emailed proposals sent.
 - a. We would prefer that bids are submitted in sealed hard copy format to the following address: Utah Community Action, Attn: Stacy Weight, 1307 S 900 West, Salt Lake City, UT 84104. However, we will accept electronic submissions sent to stacy.weight@utahca.org
- 3. Does the bid bond and performance bond need to be sent at the time we turn in the bid or later if we are awarded the project?
 - a. This can be submitted later if the vendor if awarded the contract, but must be completed prior to final contract signing.
- 4. Also, should the proof of insurance be sent at the time the bid is sent in?
 - a. Yes, proof of insurance is required to be sent at the time the bid is sent in.
- 5. Also, getting all the information you need on one page may be a stretch—2 pages is more doable if you will accept that. Let me know.
 - a. Yes, 2 pages would be acceptable for this information.
- 6. Can you please provide clarification on the hardware schedule for the doors.
 - a. Please see the attached EXHIBIT 1 for clarification.
- 7. Are there any leftover samples to help match existing tile.
 - a. No there are no leftover samples. But attached is a submittal from the last remodel as Exhibit 2.
- 8. Is there a pattern to follow or is it random install on wall tile. If so, can we get a drawing of specifics to follow.
 - a. This would be a random pattern. Examples of this random tiling from other sites can be provided during construction.
- 9. Will the bathroom wall have a curve in it?
 - a. Yes as shown on the drawings.
- 10. Do we know what the existing finishes are on the floor tile, wall tile and carpet tile that we are matching for the new addition?
 - a. We have provided as Exhibit 3 items found from most recent construction for tile, millwork finish schedule, and paint numbers.



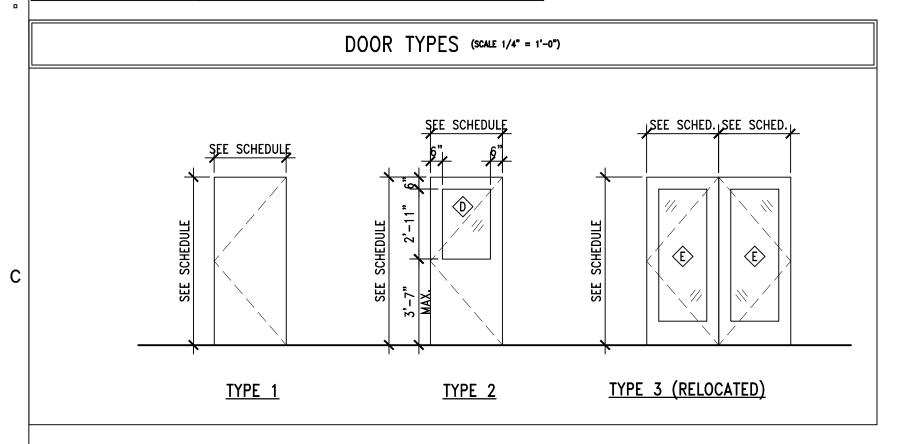
Committed to Ending Poverty

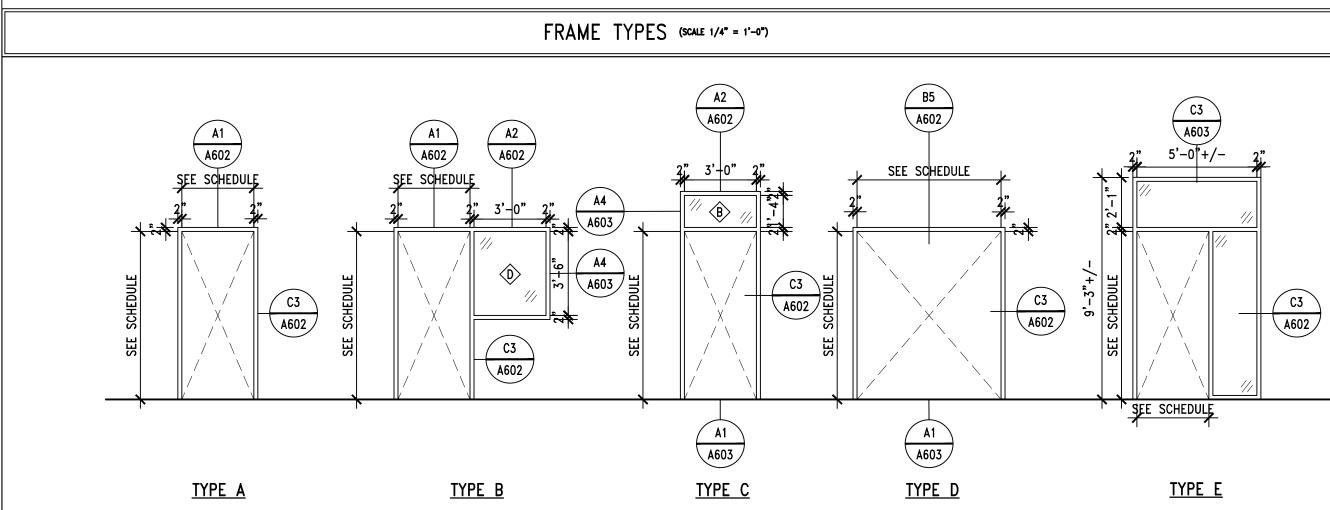
- 11. Are they wanting a cove base to match the wall tile in the restrooms or are we just going straight down to the floor tile?
 - a. ? The tile on the wall will meet the tile on the floor as shown on the drawings.
- 12. Also I have been asked for a Geotech report. Is that something you can provide?
 - a. Please see the attached Exhibit 4 for the most recent Geotech report.

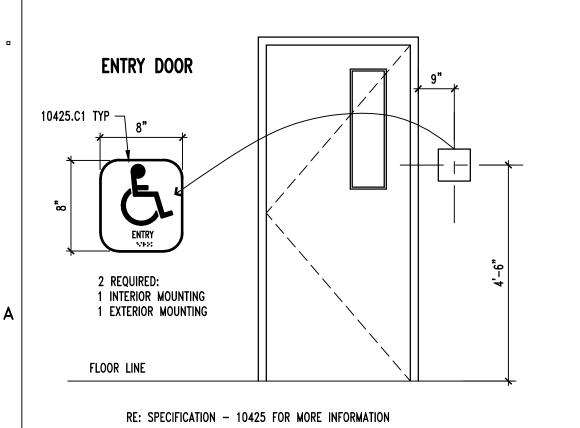
| | | | | | | | | | DOOR | SCHE | DUL | E | | | | | | |
|---------|------|-----------|--------|--------|----------|--------|------|-------|--------|--------|----------|--------|---------|---------|-----------|--------|----------|--|
| | | | DOORS | | | | | | FRA | MES | | | | DET | AILS | | | REMARKS |
| D00R # | TYPE | WIDTH | HEIGHT | THICK. | MATERIAL | FINISH | TYPE | WIDTH | НЕІСНТ | DEPTH | MATERIAL | FINISH | JAMB | HEADER | THRESHOLD | RATING | HARDWARE | |
| D102A | 1 | 3'-0" | 7'-0" | 1 3/4" | ALUM | _ | Е | 5'-4" | 9'-3" | 4 1/2" | ALUM | _ | C1-A603 | C2-A603 | - | ı | 1 | - |
| D130A | 3 | (PR)3'-0" | 7'-0" | 1 3/4" | ALUM | _ | D | 6'-4" | 7'-4" | 4 1/2" | ALUM | - | C4-A602 | B5-A602 | A1-A603 | - | | RE-USE EXISTING DOUBLE DOOR AND HARDWARE |
| D132A | 1 | 3'-0" | 7'-0" | 1 3/4" | WD | P.FIN | Α | 3'-4" | 7'-2" | 7 3/4" | НМ | PNT | C3-A602 | A1-A602 | C5-A603 | ı | 1 | - |
| D133A | 1 | 3'-0" | 7'-0" | 1 3/4" | НМ | PNT | С | 3'-4" | 7'-2" | 5 3/4" | НМ | PNT | C4-A602 | B5-A602 | A1-A603 | 1 | 2 | _ |
| D D133B | 2 | 3'-0" | 7'-0" | 1 3/4" | WD | P.FIN | В | 6'-6" | 7'-2" | 7 3/4" | НМ | PNT | C3-A602 | A1-A602 | _ | ı | 3 | - |
| D134A | 1 | 3'-0" | 7'-0" | 1 3/4" | WD | P.FIN | Α | 3'-4" | 7'-2" | 7 3/4" | НМ | PNT | C3-A602 | A1-A602 | C5-A603 | - | 1 | - |
| D135A | 1 | 3'-0" | 7'-0" | 1 3/4" | НМ | PNT | С | 3'-4" | 7'-2" | 5 3/4" | НМ | PNT | C4-A602 | B5-A602 | A1-A603 | - | 2 | - |
| D135B | 2 | 3'-0" | 7'-0" | 1 3/4" | WD | P.FIN | В | 6'-6" | 7'-2" | 7 3/4" | НМ | PNT | C3-A602 | A1-A602 | _ | - | 3 | - |

WD = SOLID CORE WOOD ALUM = ALUMINUM STN = STAIN PNT = PAINT P.FIN. = PRE-FINISHED AT FACTORY HM = HOLLOW METAL

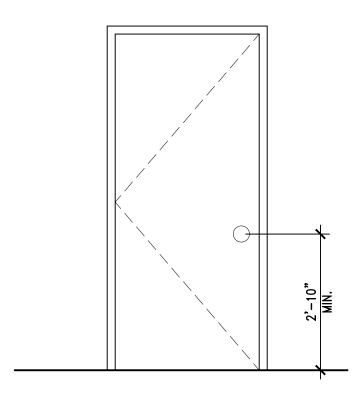
| | HARDWARE GROUPS | |
|--|---|---|
| GROUP 1 | GROUP 2 | GROUP 3 |
| 1 1/2 PR BUTT HINGRS PUSH/PULL 3 SILENCERS 1 STOP | 1 CONT. GEARHINGE 1 EXIT DEVICE (ENTRENCE) 1 WEATHERSEAL 1 ALUM. THRESHOLD | 1 1/2 PR BUTT HINGES 1 LOCKET (CLASSROOM) 3 SILENCERS 1 CLOSER |
| 1 CLOSER | 1 STOP | 1 STOP |







BATHROOM SIGN — MOUNTED ON SIDE OF BATHROOM DOOR — SIGN MUST MEET ALL ADA REQUIREMENTS RESTROOM RE: SPECIFICATION - 10425 FOR MORE INFORMATION

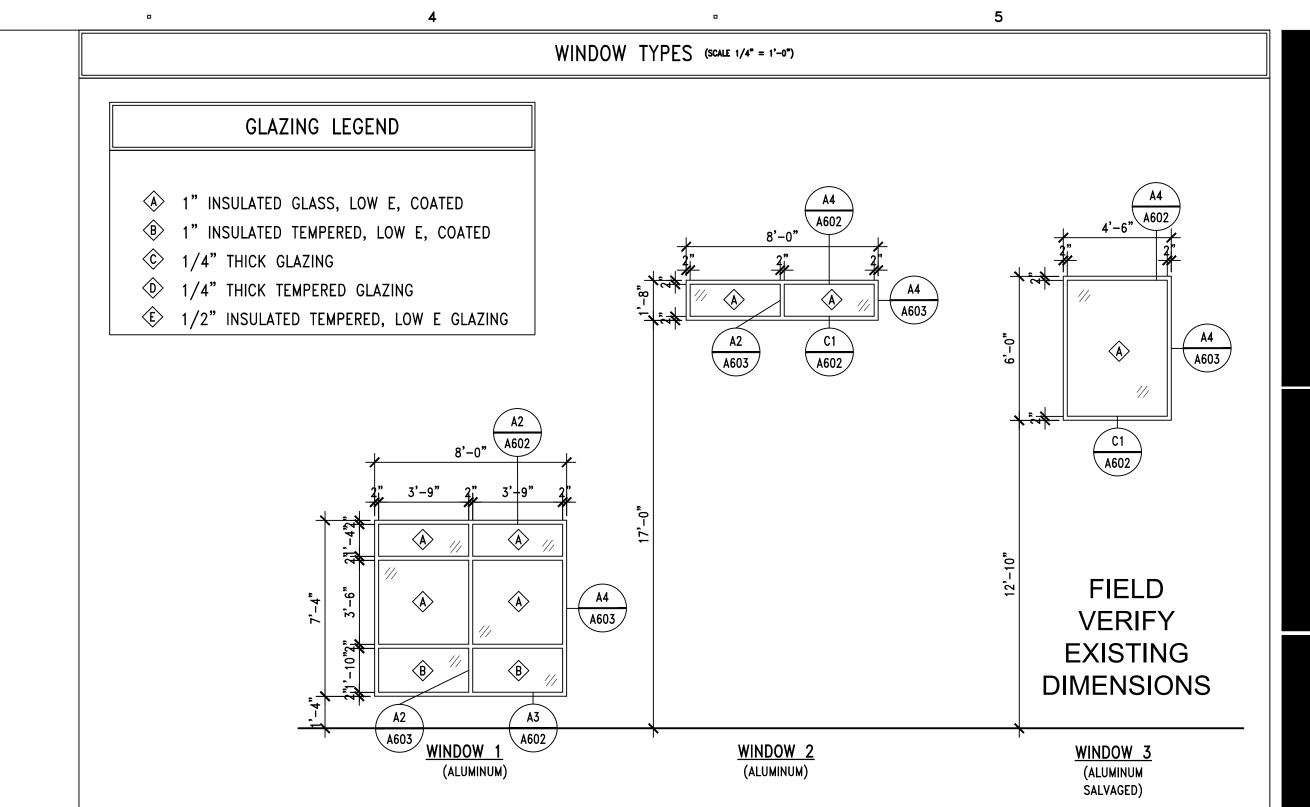


A1 ADA ENTRY SIGNAGE

SCALE: NONE

A2 | ADA RESTROOM SIGNAGE SCALE: NONE

A3 DOOR HANDLE HEIGHT SCALE: NONE



CLIENT



MAGNA HEAD START - ADDITION 8275 W. 3500 S. MAGNA, UT 84044

DESIGNER



architecture · sustainability · design services 420 West 1500 South Bountiful, UT 8484010 (385) 777-2972

CONSULTANTS



P: (801) 355-5656 F: (801) 355-5950

2766 SOUTH MAIN SALT LAKE CITY, UTAH 84115

epic

EPIC ENGINEERING 50 EAST 1ST STREET HEBER CITY, UTAH 84032 P: (435) 654-6600

CIVIL

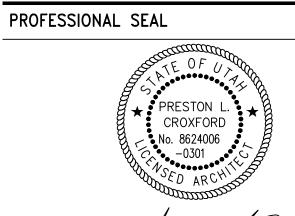
TALISMAN

1588 SOUTH MAIN

STE. 200

SALT LAKE CITY, UTAH 84115

P: (801) 743-1300



MARK DATE DESCRIPTION

| ARCHIPLEX PROJECT NO: | 2312.01 |
|-----------------------|---------------|
| DRAWN BY: | K. MULLER |
| CHECKED BY: | P.CROXFORD |
| SCALE: | AS SHOWN |
| DATE: | DECEMBER 2023 |
| | |

KEY PLAN

SHEET TITLE

DOOR/WINDOW SCHEDULES

A601

Exhibit 2

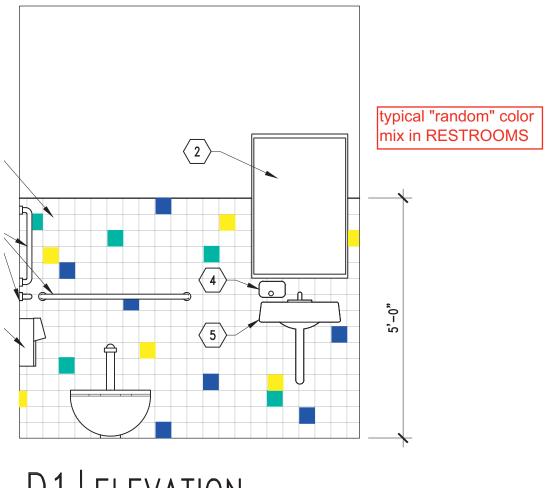


UCA - Magna Head Start Addition/Remodel Magna, UT

093000-01-01

Archipley Project #1726 01P

| | | , | Archipiex Project #1 | ./20.UID | Status: | Returned |
|---------------------|--|--------------------------------------|----------------------|----------------------------------|------------|-------------------------------|
| | SUBMITTAL REVIEW FOR | M / TRANSMITTAL | | | | |
| Distribution: | | | | Date To | Architect: | 2/28/2018 |
| | Michelle Faulk - Hogan Construction | n | # of Copies 1 | Additional Info F | Requested: | |
| | Robert Head - Utah Community Acti | ion (UCA) | # of Copies 1 | Additional Info | Received: | |
| | Archiplex Group - File | | # of Copies 1 | Date | Returned: | 5/2/2018 |
| | | | | Days To | Complete: | 63 Days minus addl. info days |
| Title: | 093000 - Tile | | Submittal | Tiling for Bathrooms and details | | |
| | Copies Received: 1 | | Description: | | | |
| Items Submitted: | ✓ Shop Drawings # of Sheets: 36 ✓ Product Data ☐ Calcul | lations | | | | |
| | ✓ Samples | ications / Designs | | | | |
| Primary Revie | · | ications / Designs Secondary Review: | | Tertiary Review: | | |
| Primary Revio | ew: Preston Croxford | | | Tertiary Review: Discipline: | | |
| • | ew: Preston Croxford ine: Architecture | Secondary Review: | # of Copies | Discipline: | | # of Copies: |
| Discipli | ew: Preston Croxford ine: Architecture ent: 2/28/2018 # of Copies: 1 | Secondary Review: Discipline: | # of Copies | Discipline: | | # of Copies: |



D1 | ELEVATION

AE402 REF. NA

SCALE: 1/2" = 1'-0"



Submittal #09 3000-1.0 09 3000 - Tiling

Project: 00.17.545 - UCA Magna Expansion 3500 S. 8259 W. Magna, Utah 84044

| | | | | 09300 | 0 - Tile | | | | |
|--|---|---|---|---|------------------|--|--|--|-------|
| SPEC SECTION: | 09 3000 - | - Tiling | | | SUBMITTAL N | MANAGER: | Joanie Slatter (Hoga | an) | |
| STATUS: | Open | | | | DATE CREAT | ED: | 12/11/2017 | | |
| SSUE DATE: | 02/27/201 | 18 | | | REVISION: | | 0 | | |
| RESPONSIBLE CONTRACTOR: | | | | RECEIVED FF | ROM: | | | | |
| RECEIVED DATE: | 02/27/20 | 118 | | | SUBMIT BY: | | 01/5/2018 | | |
| INAL DUE DATE: | 03/14/201 | 18 | | | LOCATION: | | | | |
| YPE: | | | | | COST CODE: | | | | |
| PPROVERS: | Preston C | Croxford (Arch | niplex Group) | | | | | | |
| BALL IN COURT: Preston Croxford (A | rchiplex G | Group) | | | | | | | |
| DISTRIBUTION: Rob Birch (Hogan) | , George D | Dickson (Hog | an) , Robert Hea | ad (Utah Comi | munity Action) | | | | |
| DESCRIPTION: | | | | | | | | | |
| ATTACHMENTS: | | | | | | | | | |
| NAME | SL A | UBMITTER/ PPROVER | SENT DATE | DUE DATE | RETURNED DATE | | ATTACHMENTS MITTAL REVIE | | MENTS |
| Preston Croxford | , | Approver | | 3/14/2018 | | Fenaing | | ·V | |
| SUBMITTED REJECTED Corrections or comm review do not relieve of the drawings and compliance with the subcontractor is result and dimensions; selections coording performing his work HOGAN & ASSO By: HUGAN & ASSO By: HOGAN & BY: HOGAN & ASSO By: HOGAN & BY: H | FURNI ments made a subcontra specificatio informatio consible for ecting fabric ating his wo in a safe an | actor from com ons. This check on given in the r confirming an cation process ork with that o nd satisfactory | trawings during the pliance with requirements only for review contract document document document contract document contract fall other trades, manner. | uirements of general nts. The quantities s of ; and | | REVIEW RESUE RESUE RESUE REJECT INFORM REQUI The Architect// for conforman and with th Documents; procedures ar coordination on either extend the Architect authorize char | GRO ED - NO EXCEPTION TAKE ED - EXCEPTIONS NOTED MISSION NOT REQUIRED ED - EXCEPTIONS NOTED MISSION REQUIRED. ED - RESUBMISSION REQ ATION RECEIVED - NO RE RED. Engineer approves the shop dra ce with the design concept of e information given in the this approval does not exten d shop drawing fabrication pr f trades and their work; revie s nor alters any contractual of or Contractor; review/approva ges to the Contract Sum or Co | EN. D; UIRED. EVIEW awings only the project e Contract d to safety cocesses or exwlapproval oligations of al does not intract Time. | |
| | | | | | | | | | |



1

3200 S Eldredge St Salt Lake City, UT 84115 PHONE: (801) 484-3188

| TILL | & SIONE | Salt Lake City, UT 84115 | FAX: (801) 484-0669 | www.millcreektile.com |
|-----------|--|---|-------------------------|-----------------------|
| DATE: | 2/21/18 | | | |
| TO: | HOGAN CONSTRUC ATTN: MICHELLE FA 940 NORTH 1250 W CENTERVILLE, UT 8 | NULK EST | | |
| PROJECT: | TCC | | | |
| WE TRANS | MIT: | | | |
| X | herewith | | | |
| | under separate cove | | | |
| FOR YOUR | | | | |
| | approval | | ibution | |
| X | review & comment use | X reco | rd mation | |
| | | | mation | |
| THE FOLLO | DWING: _drawings | V | | |
| | specifications | Xprod X sam | uct data | |
| | • | | nes | |
| COPIES | [| DESCRIPTION | | |
| | ACTUAL SAN | IPLES TO BE PROVIDI | ED: | |
| 1 | TL DALTILE 2X2 | KEYSTONE MOSAIC | | |
| 1 | TL DALTILE 4 1/4X4 1 | /4 SEMI GLOSS GROUP 1 OR | 2 | |
| NOTE: | THE FOLLOWING WE | ERE SENT ELECTRONI | CALLY TO MICHELLE | FAULK |
| 1 | TL DALTILE, KEYSTO | E & GROUT NE MOSAIC GROUP 1 OR 2 OR TILE AT RESTROOMS) R TILE COLOR= | | |
| 1 | | OSS GF ALMOND, GALAXY, TILE AT RESTROOMS) | SPA, CORNSILK, DESERT G | GRAY, WATERFALL |
| 1 | | DR FA UT AT ALL TILE) TILE GROUT COLOR = | | |

NOTE: I HAVE SUBMITTED ALL MAPEI PRODUCTS FOR MORTAR, GROUT, WATERPROOFING AND CRACK ISOLATION MEMBRANE. THE PRODUCTS I HAVE SUBMITTED ARE EQUAL OR BETTER THAN THOSE SPECIFIED. MAPEI WILL SUPPLY A

SETTING MATERIALS PRODUCT DATA

(MORTAR FOR WALL TILE INSTALLATION)

MAPEI MASTIC TYPE 1 PRODUCT DATA SHEET



3200 S Eldredge St Salt Lake City, UT 84115

PHONE: (801) 484-3188 FAX: (801) 484-0669

www.millcreektile.com

MANUFACTURER WARRANTY FOR SINGLE SOURCE INSTALLATION IF WE USE THESE PRODUCTS AS I HAVE LISTED THEM.

Signed by:

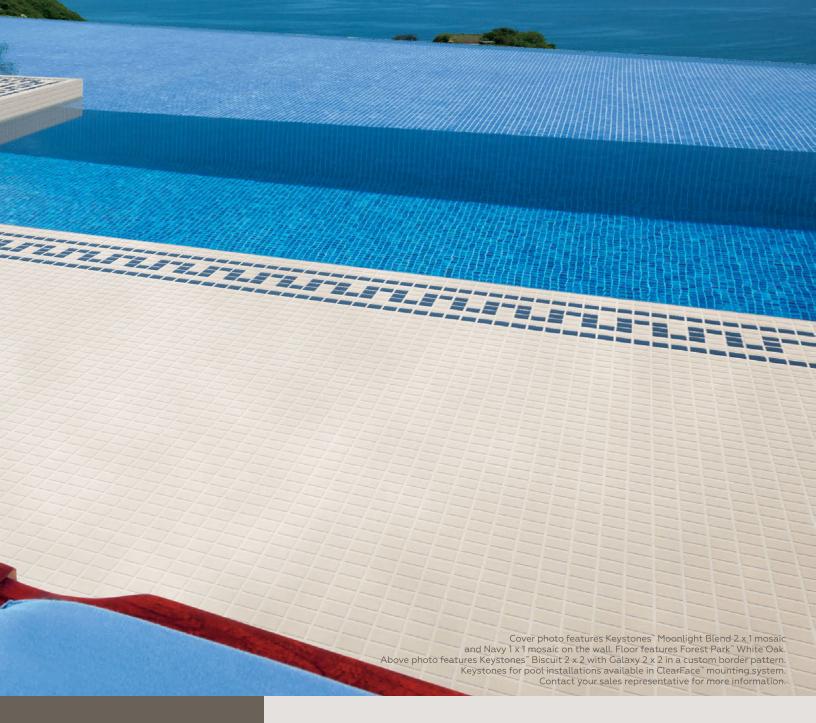
DANNY PAGE ESTIMATOR



FLOOR | WALL

KEYSTONES[™]
COLORBODY[™] PORCELAIN MOSAICS





Create a Stylized Space with the Latest Mosaic Looks It's a celebration of new colors and sizes with Keystones[™] unglazed mosaics from Daltile. As a prominent product for years, this collection proudly introduces brand-new shades and sizes for the freshest options and even more design flexibility. From floors and walls to countertops, patios and pools, create custom designs perfect for any space. Add stylized borders and corners for a finishing touch and unified look.

- ANYWHERE & ANYPLACE
 - Suitable for exteriors, interiors, pools, flooring, walls, countertops and beyond
- TRENDY COLORS & SIZES
 - Available in multiple sizes and fresh, new colors for countless styling options
- BOLD PATTERNS
 - Create patterns and unique, custom designs to personalize your space
- FINISHING TOUCHES
 - Stylized borders and corners add the perfect touch

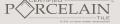


PRE-CONSUMER RECYCLED MATERIALS

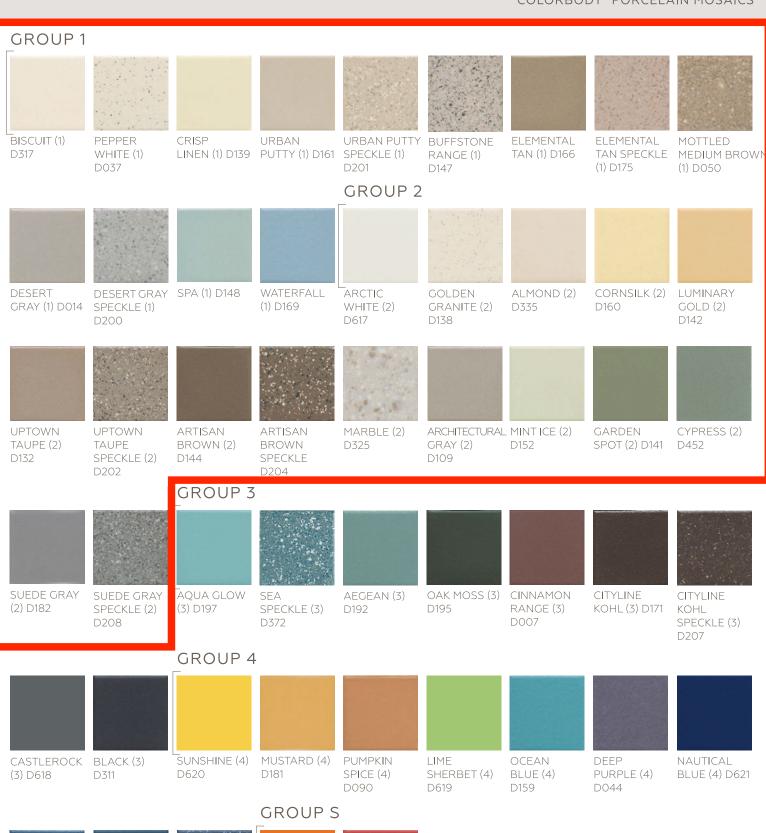


MADE IN THE U.S.A.

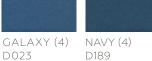
All or select items within this series meet the requirements for these qualifications. For more product information, visit daltile.com.



COLORBODY™ PORCELAIN MOSAICS









D209





(S) D622



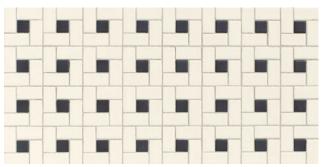
D017

(1), (2), (3), (4) and (S) indicate Price Groups, (1) being the least expensive.

All Keystones $^{\text{\tiny{T}}}$ 1 x 1 and 2 x 2 mosaics are offered in all colors and available on a standard made-to-order basis using ClearFace™ mounting system.

COLORBODY™ PORCELAIN MOSAICS

STOCKED BLENDS AND PATTERNS



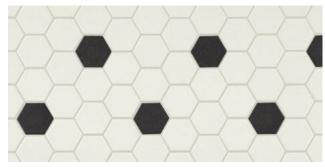
WINDMILL DK20 1 x 1 & 2 x 1 Mosaic Biscuit D317 with Black D311



MIRAGE DK11 1 x 1 Mosaic 40% Biscuit D317, 30% Urban Putty D161, 30% Architectural Gray D109



CHOCOLATE DK13 1 x 1 Mosaic 40% Almond D335, 30% Urban Putty D161, 30% Artisan Brown D144



HEXAGON DK16 2" Hexagonal Tile Arctic White D617 and Black D311



BEACH DK04 1 x 1 Mosaic 33% Porcelain D335, 33% Biscuit D317, 34% Urban Putty D161



KHAKI DK12 1 x 1 Mosaic 33% Urban Putty D161, 33% Almond D335, 33% Elemental Tan D166



MOONLIGHT DK14 1 x 1 Mosaic (Also available in 2 x 1 Brick-Joint) 33% Arctic White D617, 33% Suede Gray D182, 33% Desert Gray D014



HEXAGON DK16 1" Hexagonal Tile Arctic White D617 and Black D311

COLORBODY™ PORCELAIN MOSAICS

SIZES

| | | Thickness | Sq. Ft. per Carton | Pieces per Carton |
|--|---|-----------|-----------------------|----------------------|
| 2 x 2 Mosaic (Dot-mounted on 12" x 24" Sheet) | (2" x 2" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 24.00 | 12 |
| 1 x 1 Mosaic (Dot-mounted on 12" x 24" Sheet) | (1" x 1" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 24.00 | 12 |
| 2 x 1 Straight-joint Mosaic (Dot-mounted on 12" x 24" Sheet) | (2" x 1" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 24.00 | 12 |
| 2 x 1 Brick-joint Mosaic (Dot-mounted on 12" x 24" Sheet) | (2" x 1" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 22.00 | 12 |
| 2" Hexagon Mosaic (Dot-mounted on 12" x 24" Sheet) | (2" x 2" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 24.24 | 12 |
| 1" Hexagon Mosaic (Dot-mounted on 12" x 24" Sheet) | (1" x 1" Piece) (12" x 22-5/8" Sheet) (30.48 cm x 58.10 cm Sheet) | 1/4" | 21.00 | 12 |
| 2 x 4 Straight-joint Mosaic (Dot-mounted on 12" x 24" Sheet) | (2" x 4" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 24.00 | 12 |
| 2 x 4 Brick-joint Mosaic (Dot-mounted on 12" x 24" Sheet) | (2" x 4" Piece) (12" x 24" Sheet) (30.48 cm x 60.96 cm Sheet) | 1/4" | 20.04 | 12 |

All colors in 1 x 1 and 2 x 2 size available with Keystones ClearFace™ mounting system on a made-to-order basis.

APPLICATIONS

| | Target DCOF wet | Suitable |
|---|--------------------|-------------|
| Dry & Level – Interior Floor | N/A | ✓ |
| Wet & Level – Interior Floor | ≥ 0.42 | ~ |
| Shower Floors (Residential or Light Commercial) | ≥ 0.42 | ~ |
| Exterior Floor Applications, including Pool Decking & Other Wet Areas with Minimal Footwear | ≥ 0.55 | √ * |
| Ramps & Inclines | ≥ 0.65 | |
| Walls/Backsplashes | N/A | ✓ |
| Countertops | N/A | ✓ |
| Pool Linings | N/A | ✓ |
| Pool Tank/Submerged | N/A | / ** |

A DCOF value of \geq 0.42 is the standard for tiles specified for level interior spaces expected to be walked upon when wet, as stated in ANSI A1371-2012, Section 9.6. For more information about DCOF and the DCOF AcuTest", visit daltile.com/DCOF.

APPLICATION NOTES:

- * Keystones mosaics have recurrent grout joints and reflect a DCOF of \geq 0.55 wet making them suitable for these applications.
- ** Keystones mosaics with ClearFace™ mounting system recommended for pool tanks and submerged applications.

Suitable for exterior applications in freezing and non-freezing climates when proper installation methods are followed.

INSTALLATION

| Grout Joint Recommendation | Shade Variation |
|----------------------------|-------------------------------|
| 1/8" Approximately | Low (V1) to Random (V4) |

Solid colors have low shade variation, mottled and speckled colors have medium, and blends have random.

TEST RESULTS

| ASTM# | Result |
|-------|----------------------|
| C373 | < 0.5% |
| C648 | > 300 lbs |
| MOHS | N/A |
| C650 | Resistant |
| | C373 C648 MOHS |

COLORBODY™ PORCELAIN MOSAICS

TRIM

| 110111 | Туре | Number | Size | Pieces / LF Per Carton | Groups |
|------------|---------------------|----------------|--|---------------------------|------------|
| | Bullnose | S-862 | 1 × 1 | 196 | 1, 2 |
| | Bullnose | S-886 | 2 × 2 | 180 | 1, 2, 3, 4 |
| | Bullnose Corner | SC-862 ◆ | 1 × 1 | 100 | 1, 2 |
| | Bullnose Corner | SC-886 | 2 × 2 | 100 | 1, 2, 3, 4 |
| | Cove Base | C-813 | 1 × 1 | 84 | 1, 2 |
| \bigcirc | Cove Base | C-833 | 2 × 2 | 84 | 1, 2, 3 |
| | Cove Base Corner | CB-813 | 1 × 1 | 100 | 1, 2 |
| \Box | Cove Base Corner | CK-813 | 1 × 1 | 100 | 1, 2, 3 |
| | Cove Base Corner | SB-816 ◆ | 2 × 2 | 100 | 1, 2 |
| Ď. | Cove Base Corner | SC-816 ◆ | 2 × 2 | 100 | 1, 2 |
| \Diamond | Outcorner | SCRL-833 ◆ | 2 x 1 | 100 | 1, 2, 3 |
| 5 | Universal Trim | S-812 ♦ | 1 × 1 | 112 | 1, 2 |
| D | Universal Trim | S-832 | 2 × 2 | 112 | 1, 2 |
| | Universal Trim | SC-813 | 2 x 2 | 100 | 1, 2, 3 |
| | Universal Trim | C-701 ◆ | 1 × 1 | 50 | 1, 2, 3, 4 |
| | Build-up Base | MB-4C | (3) Rows 1 x 1 (1) Row C-813 | 26 | 1, 2 |
| 1000 000 | Build-up Base | MB-5 | (1) Row S-862 (3) Rows 1 x 1 (1) Row C-813 | 26 | 1, 2 |
| 1000 C. 1 | Build-up Base | MB-5A | (2) Rows 2 x 2 (1) Row C-833 | 26 | 1, 2, 3 |
| 1600 200 | Build-up Base | MB-5B | (1) Row S-886 (1) Row 2 x 2 (1) Row C-833 | 26 | 1, 2, 3 |

[◆] Made-to-order

NOTES

Strong random shading enhances the natural beauty of this product. To achieve optimal results, tile should be selected from multiple cartons and shading arrangement planned prior to installation.

Special care should be taken when grouting with dark pigmented colors. A grout release is recommended to prevent finely powdered pigments from lodging in the pores of the surface. Use of a latex modified thin-set is recommended for installation.

Since there are variations in all fired ceramic products, tile and trim supplied for your particular installation may not match these samples. Final color selection should be made from actual tiles and trim and not from tile samples or color reproductions. Manufactured in accordance with ANSI A137.1 standards.

Water, oil, grease, etc. create slippery conditions. Floor applications with exposure to these conditions require extra caution in product selection. Not for use on ramps.

For additional information refer to "Factors to Consider" at daltile.com/Factors.

CLEARFACE™ MOUNTING SYSTEM

- Keystones[™] ClearFace[™] is a new mounting system intended primarily for use in swimming pools and submerged applications. ClearFace[™] mounted tile is a premium product to existing paperface offerings and supplements dot-mounted mosaics.
- Additionally, ClearFace allows the contractor to see chips as they
 are being installed, allowing for realignment when wet should
 a chip need adjustment. ClearFace's premium feature includes
 complete tile-back-to-substrate mortar transfer.
- All Keystones 1" and 2" colors are available on a standard made-toorder basis using the ClearFace™ mounting system.
- · Complete tile-to-substrate mortar transfer
- Premium alternative for swimming pool installations
- Provides 100% contact between the tile and setting materials, providing additional bond strength
- Allows for visual inspection and better alignment during installation
- · Comes with extended 25-year pro-rated limited warranty



COLORBODY™ PORCELAIN MOSAICS

GROUP 1

| Color N | Name | Keystones Unglazed 1 x 1 & 2 x 2 | Keystones Unglazed 2 x 1 & 2 x 4 | Keystones 1" Hex | Keystones 2" Hex | Trim |
|---------|-----------------------|--|--|---------------------|---------------------|------|
| D317 | Biscuit | STK | STK | STK | MTO | STK |
| D147 | Buffstone Range | STK | N/A | MTO | N/A | STK |
| D139 | Crisp Linen | MTO | N/A | MTO | N/A | + |
| D014 | Desert Gray | STK | STK | MTO | STK | STK |
| D200 | Desert Gray Speckle | STK | STK | N/A | STK | STK |
| D166 | Elemental Tan | STK | N/A | N/A | N/A | STK |
| D175 | Elemental Tan Speckle | STK | N/A | N/A | N/A | STK |
| D050 | Mottled Medium Brown | STK | N/A | MTO | MTO | STK |
| D037 | Pepper White | STK | N/A | N/A | N/A | STK |
| D148 | Spa | MTO | N/A | MTO | N/A | * |
| D161 | Urban Putty | STK | STK | N/A | STK | STK |
| D201 | Urban Putty Speckle | STK | STK | N/A | STK | STK |
| D169 | Waterfall | STK | N/A | N/A | N/A | * |

GROUP 2

| D335 | Almond | STK | STK | MTO | MTO | STK |
|------|-----------------------|-----|-----|-----|-----|-----|
| D109 | Architectural Gray | STK | STK | N/A | STK | * |
| D617 | Arctic White | STK | STK | STK | STK | STK |
| D144 | Artisan Brown | STK | N/A | N/A | MTO | * |
| D204 | Artisan Brown Speckle | STK | N/A | N/A | MTO | * |
| D160 | Cornsilk | MTO | N/A | MTO | N/A | + |
| D452 | Cypress | MTO | N/A | MTO | MTO | + |
| D141 | Garden Spot | MTO | N/A | N/A | N/A | + |
| D138 | Golden Granite | STK | N/A | MTO | N/A | * |
| D142 | Luminary Gold | MTO | N/A | N/A | MTO | + |
| D325 | Marble | STK | N/A | N/A | N/A | STK |
| D152 | Mint Ice | MTO | N/A | N/A | MTO | + |
| D182 | Suede Gray | STK | STK | MTO | MTO | STK |
| D208 | Suede Gray Speckle | STK | STK | N/A | MTO | STK |
| D132 | Uptown Taupe | STK | N/A | MTO | N/A | * |
| D202 | Uptown Taupe Speckle | STK | N/A | N/A | MTO | STK |

^{*} Trim Stocked in S886, SC886, C833 and SC813. Made-to-Order in C701, SCR-L833, CK813, MB5B and MB5A. No other trim available.

⁺ Trim Made-to-order in S886, SC886, C833, SC813, C701, SCR-L833, CK813, MB5B and MB5A. No other trim available. STK Trim stocked in S862, S886, SC886, C813, C833, CB813, CK813, S832, SC813, MB-4C, MB-5, MB-5B and made to order in SC862, SB816, SC816, SCR-L833, S812 and C701

^{**} Group 4 trim offered in S886, SC886 and C701. No other trim offered.

STK = stocked, NA = Not available, MTO = Made-to-Order. Made to Order items require 6 - 8 week lead time.

All colors (except D017 Red and Orange) available with 7 ½ % abrasive content on a made to order basis in 1x1 and 2x2.

KEYSTONES[™]

COLORBODY™ PORCELAIN MOSAICS

GROUP 3

| Color N | lame | Keystones Unglazed 1 x 1 & 2 x 2 | Keystones 1" Hex | Keystones 2" Hex | Trim |
|---------|-----------------------|-------------------------------------|---------------------|---------------------|------|
| D192 | Aegean | МТО | N/A | N/A | + |
| D197 | Aqua Glow | МТО | N/A | N/A | + |
| D311 | Black | STK | STK | MTO | * |
| D618 | Castlerock | STK | N/A | MTO | * |
| D007 | Cinnamon Range | МТО | MTO | N/A | + |
| D171 | Cityline Kohl | МТО | N/A | N/A | + |
| D207 | Cityline Kohl Speckle | МТО | N/A | N/A | + |
| D195 | Oak Moss | МТО | N/A | N/A | + |
| D372 | Sea Spec | МТО | N/A | N/A | + |

GROUP 4

| D044 | Deep Purple | MTO | MTO | N/A | MTO** |
|------|---------------|-----|-----|-----|-------|
| D023 | Galaxy | STK | MTO | MTO | STK** |
| D619 | Lime Sherbet | STK | N/A | N/A | STK** |
| D181 | Mustard | STK | MTO | N/A | STK** |
| D621 | Nautical Blue | STK | N/A | N/A | STK** |
| D189 | Navy | STK | N/A | N/A | STK** |
| D209 | Navy Speckle | STK | N/A | N/A | STK** |
| D159 | Ocean Blue | MTO | N/A | N/A | MTO** |
| D090 | Pumpkin Spice | MTO | MTO | N/A | MTO** |
| D620 | Sunshine | STK | N/A | N/A | MTO** |

GROUP S

| OICO | 01 3 | | | | |
|------|--------------|-----|-----|-----|-----|
| D017 | Red# | MTO | N/A | N/A | N/A |
| D622 | Clementine # | MTO | N/A | N/A | N/A |

[#] Available in 1 x 1 and 2 x 2 only (no trim) on a made to order basis.









WALL

SEMI-GLOSS™ & MATTE™

GLAZED CERAMIC





The Essentials – Redefined

Semi-Gloss[™] and Matte[™] glazed wall tile offers an extensive collection of colors options. This color palette offers a selection that extends from neutral and earthy to bright and trendy. With both matte and semi-gloss surfaces, this line is suitable for both residential and commercial usage including interior and exterior walls, countertops, and pool linings. From clean neutrals to bright and vibrant colors, you're sure to find the color you need to create the perfect design color scheme.

• SUITS MULTIPLE DESIGN NEEDS AND STYLES

- Can be used in a variety of ways, including interior and exterior walls, countertops, and pool linings for both residential and commercial applications
- Offered in two finishes and extensive color palette to suit many design styles

· COORDINATING OPTIONS

- Colors coordinate with Modern Dimensions[™] and Rittenhouse Square[™] lines, offering more design options
- Coordinating trim available for that finishing touch



POST-CONSUMER RECYCLED MATERIALS



PRE-CONSUMER RECYCLED MATERIALS



MADE IN THE U.S.A.

All or select items within this series are made in the USA. For more information, visit daltile.com/SemiGloss or daltile.com/Matte.

SEMI-GLOSS™ & MATTE™

GLAZED CERAMIC

SEMI-GLOSS WALL TILE



(1), (2), (3), (4) and (5) indicate Price Groups, (1) being the least expensive.

- ♣ "Q" colors special order. Please allow 1-2 weeks lead time from the date of order.
- ★ Subject to crazing; black grout not recommended.
- ◆ Made to order and requires 6-8 weeks delivery from date of order.

See the Rittenhouse Square[™] Collection for colors available in 3 x 6 sizes.

See the Modern Dimensions™ Collection for colors available in 4-1/4 x 8-1/2 and 4-1/4 x 12-3/4 sizes.

SEMI-GLOSS™ & MATTE™

GLAZED CERAMIC

MATTE WALL TILE



(1), (2), (3), (4) and (5) indicate Price Groups, (1) being the least expensive.

◆ Made-to-order colors.

See the Rittenhouse Square[™] Collection for colors available in 3 x 6 sizes.

See the Modern Dimensions[™] Collection for colors available in 4-1/4 x 8-1/2 and 4-1/4 x 12-3/4 sizes.

SIZES

| | | Thickness | Sq. Ft. per Carton | Pieces per Carton |
|--------------------|--|-----------|-----------------------|----------------------|
| 6 x 6 Wall Tile | (6" × 6") (15.20 cm × 15.20 cm) | 5/16" | 12.50 | 50 |
| | (4-1/4" x 4-1/4") (10.80 cm x 10.80 cm) | 5/16" | 12.50 | 100 |

APPLICATIONS

| | Suitable |
|--------------------|-------------|
| Floors | |
| Walls/Backsplashes | ✓ |
| Countertops | √ * |
| Pool Linings | ✓ ** |

APPLICATION NOTES:

- * Suitable for matte colors only. Dark colors may show scratches. 3 x 6, 4-1/4 x 4-1/4 and 6 x 6 wall tile only.
- ** 3×6 , $4-1/4 \times 4-1/4$ and 6×6 wall tile only.

Suitable for exterior wall applications in non-freezing climates only when proper installation methods are followed.

INSTALLATION

| Grout Joint Recommendation | Shade Variation |
|----------------------------|-----------------|
| 1/16" | Low (V1) |

TEST RESULTS

| | ASTM# | Result |
|---------------------|-------|-------------|
| Water Absorption | C373 | < 20.0% |
| Breaking Strength | C648 | 120-230 lbs |
| Scratch Hardness | MOHS | 4.0-6.0 |
| Chemical Resistance | C650 | Resistant |

NOTES

Since there are variations in all fired ceramic products, tile and trim supplied for your particular installation may not match these samples. Final color selection should be made from actual tiles and trim and not from tile samples or color reproductions. Manufactured in accordance with ANSI A137.1 standards.

For additional information refer to "Factors to Consider" at daltile.com/Factors.

SEMI-GLOSS™ & MATTE™

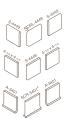
GLAZED CERAMIC

TRIM

| | Туре | Number | Size | Pieces Per Carton | Semi-Gloss | Matte |
|-------------------|--|------------------|---------------|----------------------|----------------------|-------------|
| | Radius Bullnose ■ ● | A-4200 | 2 x 6 | 100 | Groups 1, 2, 3, 4 | Groups 1, 2 |
| 0 | Radius Bullnose Corner ■ ● | AN-4200 | 2 x 2 | 20 | Groups 1, 2, 3, 4 | Groups 1, 2 |
| 0 | Radius Bullnose ● ◆ | A-4402 | 4-1/4 × 4 1/4 | 84 | Groups 1, 4 | |
| 0 | Radius Bullnose Corner ● ◆ | ACRL-4402 | 4-1/4 × 4 1/4 | 30 | Groups 1, 4 | |
| | Radius Bullnose ◆ | A-3602 | 6 x 6 | 44 | Group 1 | |
| | Radius Bullnose Corner ◆ | ACR-L-3602 | 6 x 6 | 20 | Group 1 | |
| | Bullnose** ■ ● | S-4269 | 2 x 6 | 100 | Groups 1, 2, 3, 4, 5 | Groups 1, 2 |
| | Bullnose** | S-4449 | 4-1/4 × 4-1/4 | 100 | Groups 1, 2, 3, 4, 5 | Groups 1, 2 |
| | Bullnose** | S-4669 | 6 x 6 | 50 | Groups 1, 2, 4, 5 | Groups 1, 2 |
| 0 | Bullnose Corner** ■ ● ▶ | SN-4269 | 2 x 2 | 25 | Groups 1, 2, 3, 4 | Groups 1, 2 |
| | Bullnose Corner** ▶ | SCRL-4449 | 4-1/4 × 4-1/4 | 100 | Groups 1, 2, 3, 4 | Groups 1, 2 |
| | Bullnose Corner** ▶ | SCRL-4669 | 6 x 6 | 50 | Groups 1, 2, 4 | Groups 1, 2 |
| | Flat Top Cove* | A-3401 | 4-1/4 × 4-1/4 | 84 | Groups 1, 2, 4 | Group 1 |
| | Flat Top Cove Left or Right* ▶ | A-3601 | 6 x 6 | 44 | Groups 1, 2, 4 | Groups 1, 2 |
| 0 | Flat Top Cove Left or Right* ▶ | A-3461 | 4-1/4 × 6 | 60 | Group 1 | Group 1 |
| | Flat Top Cove Corner Left or Right* ▶ | SCR-L-3401 | 4-1/4 × 4-1/4 | 30 | Groups 1, 2, 4 | Group 1 |
| | Flat Top Cove Radius Corner Left or Right* | ACR-L-3401 | 4-1/4 × 4-1/4 | 30 | Groups 1, 4 | Group 1 |
| | Flat Top Cove Corner*■●♪ | SCR-L-3601 | 6 x 6 | 20 | Groups 1, 2, 4 | Groups 1, 2 |
| 0 | Sanitary Cove Base ▲ ▶ | S-3419T | 4-1/4 × 6 | 60 | Groups 1, 2, 4 | Groups 1, 2 |
| | Sanitary Cove Base ▲ ▶ | S-3619T | 6 x 6 | 40 | Groups 1, 4 | Group 1 |
| | Sanitary Cove Base Corner Left or Right ▲ ■ ● ▶ | SCR-L-34191 | 4-1/4 × 6 | 20 | Groups 1, 2, 4 | Groups 1, 2 |
| | Sanitary Cove Base Corner Left or Right ▲ ▶ | SCR-L-36191 | 6 x 6 | 20 | Groups 1, 2, 4 | Group 1 |
| | Quarter Round ■ ▶ | A-106 | 3/4 x 6 | 152 | Groups 1, 2, 4 | Groups 1, 2 |
| 0 | Quarter Round Beak ■●▶ | AC-106 | 3/4 x 6 | 120 | Groups 1, 2, 4 | Groups 1, 2 |
| \bigcirc | Sink Rail ◆ | WA-8262 | 2-1/2 x 2 x 6 | 66 | Group 1 | |
| 1 | Sink Rail Outside/Inside Corner* ◆ | WAC- WAM-8262 | 2-1/2 x 2 X 2 | 40/20 | Group 1 | |
| \Leftrightarrow | Sink Rail/V-Cap * ◆ | WA-8262 | 2 x 2 x 2-1/2 | 66 | Group 1 | |
| | Shower Jam/Curb* ◆ | A-7250 | 2-1/2 x 6 | 60 | Group 1 | |

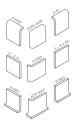
SURFACE TRIM

- $4-1/4 \times 4-1/4$ typical installation
- * Opposite not shown



CONVENTIONAL TRIM

- $4-1/4 \times 4-1/4$ typical installation
- * Opposite not shown



All colors available (except Vermillion ODM1) through Special Order.

- * For conventional mortar installation
- ** For thinset bed installation
- ▲ Roundtop
- Not available in colors 0109, 0139, 0141, 0144, 0148, 0160, 0169, 0709, 0744, 1469
- Not available in 0132 and 0732
- Group 1 colors only available in 0100, 0135, 0161, 0190, 0761, 0790, X114, X714 and X735. All other colors are made-to-order.
- ◆ Group 1 colors only available in 0100, 0135 and 0190







GET.DALTILE.COM





DESCRIPTION

Ultraflex 2 is a professional-grade, single-component, high-performance, polymer-modified thin-set mortar for interior and exterior installations of ceramic, porcelain and dimensional natural-stone tile. This mortar has a high content of unique dry polymer, resulting in excellent adhesion to the substrate and tile. Ultraflex 2 meets or exceeds ANSI A118.4 and ANSI A118.11 requirements when mixed with water. Ultraflex 2 can be used for interior and exterior installations of tile in most residential floor and wall applications. In commercial applications, use on interior floor and wall installations and exterior floors.

FEATURES AND BENEFITS

- Polymer-enriched for high performance and deformability
- Smooth and creamy consistency for easy application

INDUSTRY STANDARDS AND APPROVALS

ISO 13007: Classification C2EP1

 ANSI: Exceeds ANSI A118.4 and ANSI A118.11 bond strength requirements

| LEED Points Contribution | <u>LEED Points</u> |
|----------------------------------|--------------------|
| MR Credit 5, Regional Materials* | Up to 2 points |
| IEQ Credit 4.1, Low-Emitting | |
| Materials – Adhesives & Sealants | 1 point |

IEQ Credit 4.3, Low-Emitting

Materials — Flooring Systems......1 point

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

- Most interior/exterior residential installations on floors and walls
- Most interior/exterior commercial installations on floors
- Most interior commercial installations on walls
- Installation of ceramic and porcelain tile, quarry tile, pavers, Saltillo tile, and many types of marble, granite and natural stone

LIMITATIONS

- Install only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone (green marble, some limestones and granites), agglomerate tiles or resin-backed tiles. Instead, use a suitable epoxy or urethane adhesive. See the respective Technical Data Sheet for more information.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See the "Suitable Substrates" section.
- To use directly over gypsum-based patching or leveling substrates, apply suitable primer before use. See MAPEI Technical Bulletin 010313-TB, "Gypsum-Based Floors and Walls: Which MAPEI Products Can Be Applied?"



- Use a white mortar when installing light-colored stones and translucent marble.
- Installations of tile over nonporous surfaces (waterproofing membranes, sheet membranes, existing tile, etc.) may require extended setting/curing times.
- Do not use for installations subject to prolonged water immersion.
- Use a MAPEI liquid latex additive mortar system for areas subject to severe freeze/thaw conditions.

SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats
- Cement backer units (CBUs) see manufacturer's installation guidelines
- Gypsum wallboard interior walls in dry areas only (See Technical Bulletin 010313-TB for priming instructions)
- APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial in dry conditions only)
- Properly prepared vinyl composition tile (VCT) and cutback residue (interior only)
- Properly prepared existing ceramic and porcelain tile, quarry tile and pavers (interior only)
- MAPEI waterproofing, crack-isolation and soundreduction membranes

SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent proper adhesion.
- See MAPEI's "Surface Preparation Requirements" document in the Product Information section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Before starting, take appropriate safety precautions. See the (Material) Safety Data Sheet for details.

For 10-lb. (4,54-kg) size:

 Into a clean mixing container, pour about 1 to 1.2 U.S. qts. (0,95 to 1,14 L) of clean potable water. Gradually add 10 lbs. (4,54 kg) of powder while slowly mixing.

For 25-lb. (11,3-kg) size:

1b. Into a clean mixing container, pour about 2.5 to 3 U.S. qts. (2,37 to 2,84 L) of clean potable water. Gradually add 25 lbs. (11,3 kg) of powder while slowly mixing.

For 50-lb. (22,7-kg) size:

 Into a clean mixing container, pour about 5 to 6 U.S. qts. (4,73 to 5,68 L) of clean potable water. Gradually add 50 lbs. (22,7 kg) of powder while slowly mixing.

- Use a low-speed mixing drill (at about 300 rpm), with an angled cross-blade mixer or double-box mixer.
 Mix thoroughly until the mixture becomes a smooth, homogenous, lump-free paste. Avoid prolonged mixing.
- 3. Let the mixture stand ("slake") for 10 minutes.
- 4. Remix.
- If the mixture becomes heavy or stiff, remix without adding more liquid or powder.

PRODUCT APPLICATION

- Choose a typical notched trowel (see "Approximate Coverage" chart) with sufficient depth to achieve more than 80% mortar contact to both the tile and substrate for all interior applications, and more than 95% for exterior installations, commercial floor and wet applications. It may be necessary to back-butter the tile in order to meet these requirements. (Refer to ANSI A108.5 specifications and TCNA Handbook guidelines.)
- 2. With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
- 3. Apply additional mortar, combing it in a single direction with the trowel's notched side.
- Spread only as much mortar as can be tiled before product skins over. Open time can vary with jobsite conditions.
- 5. Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
- Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting (see ANSI A108.10 guidelines).

EXPANSION AND CONTROL JOINTS

 Provide for expansion and control joints as specified per TCNA Detail EJ171 or TTMAC Specification Guide 09 30 00 Detail 301EJ. Do not cover any expansion joints with mortar.

CLEANUP

Clean tools and tile while the mortar is fresh.

PROTECTION

- Protect from traffic for 24 hours. Protect from heavy traffic for 7 days.
- Protect from frost and rain for 7 days.



ISO 13007 Classification

| Classification Code | Classification Requirement |
|--------------------------------------|--|
| C2 (cementitious, improved adhesion) | ≥ 145 psi (1 MPa) after standard aging, heat aging, water immersion and freeze/thaw cycles |
| E (extended open time) | ≥ 72.5 psi (0,5 MPa) after 30 minutes |
| P1 (normal adhesion to plywood) | ≥ 72.5 psi (0,5 MPa) |



ANSI Specification

| Test Method | Specification Standard | Test Results |
|--|---------------------------------|-----------------------------------|
| ANSI A118.4 – shear strength, impervious ceramic (porcelain) mosaics | > 200 psi (1,38 MPa) at 28 days | 330 to 425 psi (2,28 to 2,93 MPa) |
| ANSI A118.4 – shear strength, glazed wall tile | > 300 psi (2,07 MPa) at 28 days | 400 to 600 psi (2,76 to 4,14 MPa) |
| ANSI A118.4 – shear strength, quarry tile to quarry tile | > 150 psi (1,03 MPa) at 28 days | 350 to 475 psi (2,41 to 3,28 MPa) |
| ANSI A118.11 – shear strength, quarry tile to plywood | > 150 psi (1,03 MPa) at 28 days | 150 to 200 psi (1,03 to 1,38 MPa) |

Shelf Life and Application Properties

at 73°F (23°C) and 50% relative humidity

| Shelf life | 1 year |
|---|----------------|
| Open time* | 30 minutes |
| Pot life* | > 2 hours |
| Time before grouting* | 16 to 24 hours |
| VOCs (Rule #1168 of California's SCAQMD) | 0 g per L |

^{*} Open time, pot life and time before grouting vary based on jobsite conditions.

Packaging

| Product Code | Size and Color |
|--------------|-------------------------------|
| 0060053 | Bag: 10 lbs. (4,54 kg), gray |
| 0060054 | Bag: 25 lbs. (11,3 kg), gray |
| 0060056 | Bag: 25 lbs. (11,3 kg), white |
| 0060055 | Bag: 50 lbs. (22,7 kg), gray |
| 0060057 | Bag: 50 lbs. (22,7 kg), white |

Approximate Coverage*

| Typical Trowel | Coverage for 50 lbs. (22,7 kg) |
|---------------------------------------|------------------------------------|
| 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) | 75 to 90 sq. ft. (6,97 to 8,36 m²) |
| 1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) | 55 to 65 sq. ft. (5,11 to 6,04 m²) |

| Typical Trowel | Coverage for 25 lbs. (11,3 kg) |
|------------------------------------|---|
| 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) | 38 to 45 sq. ft. (3,53 to 4,18 m²) |
| 1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) | 28 to 33 sq. ft. (2,60 to 3,07 m ²) |

| Typical Trowel | Coverage for 10 lbs. (4,54 kg) |
|------------------------------------|------------------------------------|
| 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) | 15 to 18 sq. ft. (1,39 to 1,67 m²) |
| 1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) | 11 to 13 sq. ft. (1,02 to 1,21 m²) |

^{*} Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.







Refer to MAPEI's (M)SDS for specific data related to VOCs, health and safety, and handling of product.

STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

We proudly support the following industry organizations:

























MAPEI Headquarters of the Americas

1144 East Newport Center Drive Deerfield Beach, Florida 33442 Phone: 1-888-US-MAPEI (1-888-876-2734)

Technical Services

1-800-992-6273 (U.S. and Puerto Rico) 1-800-361-9309 (Canada)

Customer Service

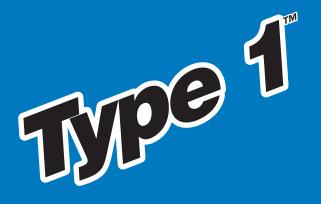
1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

Edition Date: July 29,2013 PR: 512 MKT: 6899





Professional Tile Adhesive





Type 1 is a professional-grade, traditional, nonflammable, acrylic adhesive for setting glazed and unglazed ceramic and porcelain tiles on walls, floors and countertops. This adhesive is used for interior applications only.

FEATURES AND BENEFITS

- Excellent grab: up to 12" x 12" (30 x 30 cm) tile
- Helps contribute to LEED points
- Low in odor and VOCs
- Smooth and easy to spread
- Extended open time

INDUSTRY STANDARDS AND APPROVALS

ANSI: Meets or exceeds A136.1, Type 1 standards

- * Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.



WHERE TO USE

- For use with most types of glazed and unglazed ceramics and porcelain tile, and ceramic and porcelain mosaics for walls and floors
- Use to install tiles up to 6" x 6" (15 x 15 cm) on floors, and up to 12" x 12" (30 x 30 cm) on walls.
- For tub and bath surrounds where service requirements do not exceed ANSI A136.1 Type 1
- For the installation of tile on walls in intermittent wet conditions such as tub and shower surrounds

LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use for exterior applications, steam rooms, shower floors or areas subject to water immersion.
- Do not apply over waterproofing, crack isolation or uncoupling membranes; or over particleboard, Masonite, oriented strand board (OSB), Lauan, gypsum floor-patching compounds, metal or similar dimensionally unstable substrates.
- Use only at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for setting bathroom fixtures or grab bars.
- Do not use to set natural stone.**
- ** For these installations, contact MAPEI's Technical Services Department for product recommendations.



SUITABLE SUBSTRATES

- Fully cured concrete
- Masonry block
- Cement mortars and leveling coats
- Cement backer units (CBUs) (see manufacturer's instructions for approval)
- Gypsum wallboard interior dry walls only (to improve adhesion, prime with ECO Prim Grip™)
- APA or CANPLY Group 1 exterior plywood (interior residential floors and countertops in dry areas)

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

See MAPEI's "Surface Preparation Requirements" document in the Product Information section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Ready to use; no mixing is required.

Note: Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for more information.

PRODUCT APPLICATION

- Read all installation instructions thoroughly before application.
- Use a typical notched trowel (see "Approximate Coverages" chart) with sufficient depth to ensure proper transfer, covering at least 80% of the tile back.
- 3. Using the trowel's flat edge, spread the adhesive onto the substrate. Apply additional material and comb the adhesive in one direction using the trowel's notched side to achieve an even-setting bed. Do not spread more adhesive than can be covered with tiles within 30 to 45 minutes. If skinning occurs, scrape off skin and replace with fresh adhesive.
- 4. Place tiles firmly in position on the fresh adhesive. Push the tiles back and forth in a direction perpendicular to trowel ridges, in order to collapse the adhesive ridges and achieve maximum coverage. Ensure proper contact between the fresh adhesive, tile and substrate by periodically lifting a few tiles to check for acceptable coverage.
- Make all alignments and adjustments immediately (do not exceed 45 minutes).
- Promptly use water to clean smudges from the face of the tiles while adhesive is still fresh. Once adhesive has dried, clean with mineral spirits.
- Provide for expansion and control joints as specified per TCNA Detail EJ171 or TTMAC Specification Guide 09300 Detail 301EJ.

- Wash hands, surfaces and tools with water while adhesive is still fresh. If adhesive has dried, use mineral spirits.
- 9. Allow tiles to reach a firm set, typically within 24 hours, and then grout with an appropriate MAPEI grout.

Note: Using mastics with porcelain tiles or in cool, moist conditions will extend the time required for a firm set.



ISO 13007 Classification

| Classification Code | Classification Requirement | Test Result |
|------------------------------|--|-------------|
| D1 (normal mastic) | Tensile adhesion strength; tensile adhesion strength after aging | Pass |
| T (vertical slip resistance) | Slip ≤ 0,5 mm | Pass |
| E (extended open time) | ≥ 0,5 N/mm2 (after not less than 30 minutes) | Pass |

Type 1

ANSI Specification

| Test Method | Specification Standard | Test Result |
|---|---|-------------|
| ANSI A136.1 – shear strength | Dry ≥ 50 psi (0,34 MPa) | Pass |
| (7 days) | Wet immersion ≥ 50 psi (0,34 MPa) | Pass |
| ANSI A136.1 – shear strength (28 days) | ≥ 50 psi (0,34 MPa) | Pass |
| ANSI A136.1 – resistance to mold growth | Will not support mold growth when tested in accordance to Section 6.4 | Pass |

Shelf Life and Application Properties

| Shelf life 2 years |
|--------------------|
|--------------------|

Packaging

| Product Code | Size | |
|--------------|-------------------------|--|
| 1040010 | 1 U.S. qt. (946 mL) | |
| 1040011 | 1 U.S. gal. (3,79 L) | |
| 1040016 | 3.5 U.S. gals. (13,2 L) | |

Approximate Coverages*

| Typical Trowel | 1 U.S. qt. (946 mL) | 1 U.S. gal. (3,79 L) | 3.5 U.S. gals. |
|--|----------------------|----------------------|---------------------|
| | Coverage | Coverage | (13,2 L) Coverage |
| 1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) for penny round mosaic tile, and mosaic tile measuring 3/4" (19 mm) long x 1/8" (3 mm) thick | 12.5 to 17.5 sq. ft. | 50 to 70 sq. ft. | 175 to 245 sq. ft. |
| | (1,16 to 1,63 m²) | (4,65 to 6,50 m²) | (16,3 to 22,8 m²) |
| 3/16" x 5/32" (4,5 x 4 mm) for flat-backed tiles up to 4" x 4" (10 x 10 cm) | 10 to 12.5 sq. ft. | 40 to 50 sq. ft. | 140 to 175 sq. ft. |
| | (0,93 to 1,16 m²) | (3,72 to 4,65 m²) | (13,0 to 16,3 m²) |
| 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) for tiles between 4" x 4" (10 x 10 cm) and 12" x 12" (30 x 30 cm) | 6.3 to 8.8 sq. ft. | 25 to 35 sq. ft. | 87.5 to 123 sq. ft. |
| | (0,59 to 0,82 m²) | (2,32 to 3,25 m²) | (8,13 to 11,4 m²) |

^{*} Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.







PROTECTION

- Protect containers from freezing in transit and storage.
 This product is freeze/thaw-stable at temperatures down to 0°F (-18°C). However, protect all water-based products from freezing. If this material is frozen, do not stir it until it has completely thawed.
- 2. Provide for heated storage on site and deliver materials at least 24 hours before tilework begins.
- 3. Protect from water until the adhesive has reached its final set, typically from 24 to 48 hours. For shower walls, wait at least 72 hours.
- 4. <u>Floors</u>: Keep free from general traffic for at least 72 hours after installation. Plywood or stepping boards may be used after 24 hours when occasional stepping on the floor is unavoidable.
- Walls: Protect from impact, vibration and hammering on adjacent and opposite walls for at least 14 days after installation.

RELATED DOCUMENTS

Reference Guide: Surface
Preparation Requirements for tile and stone installation systems

RGT0309*

*At www.mapei.com

Refer to the SDS for specific data related to health and safety as well as product handling.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

www.mapei.com. Any Alterations to the Wording or requirements contained in or derived from this tos shall void all related mapei warranties.

Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability.

ANY CLAIM SHALL BE DEEMED WAIVED
UNLESS MADE IN WRITING TO US WITHIN
FIFTEEN (15) DAYS FROM DATE IT WAS,
OR REASONABLY SHOULD HAVE BEEN,
DISCOVERED.

We proudly support the following industry organizations:





















MAPEI Headquarters of North America

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Technical Services

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Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

Edition Date: October 10, 2017 PR: 514 MKT: 17-2317



DESCRIPTION

Ultracolor Plus FA with DropEffect™ technology is an ultra premium, fine-aggregate, fast-setting, polymer-modified, color-consistent, nonshrinking, efflorescence-free grout for joint widths from 1/16" to 3/4" (1,5 to 19 mm). DropEffect reduces surface absorption to help repel water, dirt and grime from penetrating grout joints. Ultracolor Plus FA is specially formulated with MAPEI's High-Hydrated Cement Technology (HCT™) to eliminate the common problems related to Portland-cement grout, such as color consistency and efflorescence. Along with offering higher polymer content, HCT reduces absorption and increases stain resistance when compared with standard-performance cement grouts. Ultracolor Plus FA is formulated with 10% recycled content and meets the ANSI A138.1 specification for GreenSquared certification.

FEATURES AND BENEFITS

- Fine aggregate (FA) allows for narrow joint widths and improved cleanability
- No efflorescence (free of Portland cement)
- · Easy to install and stain-resistant
- No sealer required

INDUSTRY STANDARDS AND APPROVALS

ISO 13007: Classification CG2WAF

- ANSI: Meets or exceeds ANSI A118.6 and A118.7 industry standards
- SCS GreenSquared: Certified per ANSI A138.1

| Adhesives & Sealants | 1 point |
|---|-------------|
| IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems | 1 point |
| LEED v4 Points Contribution | LEED Points |
| MR Credit Material Ingredient Reporting – Health Product Declaration (HPD) | 1 point |

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

IEO Cradit 4.1 Law Emitting Matarials

- Commercial and residential construction suitable for both interior and exterior installations
- For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, ceramic mosaic, quarry, brick paver, porcelain, glass and clay tiles
- For application in submerged conditions (swimming pools, spas, water features and fountains), allow for 72 hours of curing time.
- For use where grout will be exposed to foot traffic within 3 to 4 hours
- For joint widths from 1/16" to 3/4" (1,5 to 19 mm)

LIMITATIONS

 Sealing is not required. However, a high-performance penetrating grout sealer may still be applied from MAPEI's *UltraCare*™ family of sealers, which includes Penetrating Plus Stone, Tile & Grout Sealer; and Penetrating



- Plus SB Stone & Porcelain Tile Sealer. Follow the directions provided in the *UltraCare* Maintenance Guide.
- Do not use when a highly chemical-, impact- and stainresistant grout is required or in heavy industrial tile installations. Instead, use an appropriate MAPEI epoxy grout (see the respective Technical Data Sheet [TDS] for details).
- When grouting in temperatures above 80°F (26°C), see the Technical Bulletins at www.mapei.com or consult MAPEI's Technical Services Department.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SURFACE PREPARATION

- Certain tiles with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining.
- The application of a grout release over certain types
 of porcelain or textured surface tiles or stone may be
 advantageous where a fine surface porosity might trap
 fine particles or color pigments. Seek the advice of the
 tile or stone manufacturer and site-test (mock up) on
 separate samples before grouting.
- Caution: Some types of glass, glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, lighter-shade grout is best suited for grouting white or light-colored marble or granite. Take all the necessary precautions to ensure that the marble, granite or tiles are compatible with colored grouts. Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts.
- Before grouting, make sure that the tiles or stones are firmly set and that the adhesive or mortar is completely dry.
- Remove all spacers, pegs, ropes and strings.
- Grout joints must be clean and free of standing water, dust, dirt and foreign matter. Remove excess adhesive or mortar from the joint area so that 2/3 of the depth of the tile is left available for grouting.
- Clean the tile or stone surface thoroughly to remove dust, dirt and other contaminants that may cause grout discoloration.

See MAPEI's "Surface Preparation Requirements" document in the Reference & Installation Guides section of the Tile & Stone Installations Systems page on MAPEI's Website.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- For best results, have the same person mix all of the grout. Consistent mixing techniques will promote more uniform results.
- Before mixing the grout with water, dry-blend the product to avoid color variations in the finished grout, which may arise from pigment settling during shipment. If two or more bags are to be used, all of the contents should be dry-blended together.
- 3. Mix *Ultracolor Plus FA* with cool, clean water only. Do not mix with grout additives. Mix by using the following water-to-grout proportions:

<u>Water</u> <u>Ultracolor Plus FA powder</u>

1 to 1.1 U.S. qts.

(0,95 to 1,04 L) 10 lbs. (4,54 kg)

2.6 to 2.8 U.S. qts.

(2,46 to 2,65 L) 25 lbs. (11,3 kg)

- 4. Pour the required measured amount of clean, cool water into a clean mixing container. Gradually add the proportionate amount of *Ultracolor Plus FA* while slowly mixing. To avoid shade variation of the finished joint, always add the powder to the water while being consistent in the mixing process and the quantity of water used from batch to batch.
- Mix thoroughly with a low-speed mixer (at about 350 rpm) for about 3 to 5 minutes, or until obtaining a smooth, creamy, homogenous paste consistency and a uniform shading of the colored grout.
- Avoid air entrapment from prolonged mixing, which will shorten the pot life.
- Allow the grout to sit ("slake") in the container for about 2 to 3 minutes.
- 8. Remix for about 30 seconds without adding more liquid or powder.
- 9. Wash tools immediately with fresh water.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

- Use only at temperatures between 50°F and 100°F (10°C and 38°C). With temperatures above 85°F (29°C), use cold water to mix the powder.
- 2. Using consistent application and cleaning procedures will produce consistent results.
- To aid in spreading the grout, slightly moisten the tile or stone surface with a damp sponge just before application. Do not flood the tiles or allow water to stand in the ungrouted joint areas.
- 4. Force *Ultracolor Plus FA* into the joints with a rubber grout float. Make sure all joints are well-compacted and free of voids and gaps.
- Remove excess grout from the tile surface, moving the grout float diagonally to the joints while the *Ultracolor Plus FA* is still fresh.



- 6. The grout surface should be flush with the tile edge.
- Some stiffening may occur before all material is used (usually within about 1 hour at room temperature). If this occurs, simply remix but do not add more liquid.
- Provide for expansion and control joints as specified per TCNA
 Handbook method EJ171 or TTMAC Specification Guide 09300,
 Detail 301EJ.
- 9. Allow the *Ultracolor Plus FA* to firm up in the joints sufficiently to avoid damaging the grout surface usually in 15 to 30 minutes, depending upon the temperature, humidity and absorption rate of the tile or stone. Nonvitreous wall tile that absorbs water quickly requires less time for grout to firm up only 5 to 10 minutes after installation.
- 10. Use two buckets of cleaning water: one for rinsing the majority of the grout residue from the grout sponge, and one for moistening the sponge in clean water.
- 11. Dip the sponge in a bucket of water and wring out the excess, so that the sponge does not drip water. Using very little pressure, pull the sponge diagonally across the grout joints to remove the excess grout from the tile surface. Also use the sponge to smooth the surface of the grout joint. Turn the sponge over and make another pass in an adjacent area. After using both sides, rinse the sponge in one bucket and wring out the excess water. Dip the sponge in the second bucket of water, wringing out the excess and continue the process.
- Change the water in the buckets frequently to help limit the amount of haze that forms on the tile or stone surface.
- To prevent discoloration and soft/powdery joints, avoid cleaning with excessive water.
- 14. To control color variations, buff the grouted surface with cheesecloth or a clean, dry cotton cloth when a haze is visible on the tile surface, usually 30 to 60 minutes after grouting. This should remove any remaining surface water or grout residue.
- 15. Wash tools immediately with fresh water.
- 16. Never use acid for cleaning marble, glazed tile or pigmented grout surfaces. If a persistent haze remains after normal cleaning, see the Technical Bulletins at www.mapei.com or consult MAPEI's Technical Services Department.

PROTECTION

- Provide for dry, heated storage on site and deliver materials at least 24 hours before tilework begins.
- For at least 72 hours after completion, protect from rain and freezing, and do not immerse the installation in water.
- <u>Floors</u>: Keep the installation free from foot traffic for at least 3 hours after grouting.
- Walls: Protect the installation from impact, vibration and hammering on adjacent and opposite walls for 14 days after tile installation (see the TDS of the adhesive or setting system for details).
- Because temperature and humidity (during and after installation of tile)
 affect the final curing time of all cement-based materials, allow for extended
 periods of curing and protection when temperatures drop below 60°F
 (16°C) and/or when the relative humidity is higher than 70%.

MAINTENANCE

- Grout must be cured for at least 24 hours before regular cleaning.
- MAPEI grout products are produced to the highest quality of standards.
 To maintain a clean tile surface, use a neutral-pH cleaner for maintaining the floor, followed by a clean water rinse.
- Do not use harsh chemical cleaners to maintain the tile surface.
 Before proceeding with cleaning, consult the cleaner's manufacturer for compatibility, use and application instructions. Remove or rinse fatty acid residue from the grout surface to avoid potential grout deterioration caused by prolonged exposure.
- A high-performance penetrating grout sealer may still be applied from MAPEI's *UltraCare* family of sealers, which includes Penetrating Plus Stone, Tile & Grout Sealer; and Penetrating Plus SB Stone & Porcelain Tile Sealer. Follow the directions provided in the *UltraCare* Maintenance Guide.

ISO 13007 Classification

| Classification Code | Test Characteristics | Classification Requirement |
|------------------------------------|----------------------|-------------------------------------|
| CG2 (cementitious grout, improved) | Shrinkage | ≤ 0.30% shrinkage in 28 days |
| W (reduced water absorption) | Water absorption | ≤ 5 g after 4 hours |
| A (high abrasion resistance) | Abrasion resistance | ≤ 1,000 mm³ |
| F (rapid-setting) | Compressive strength | ≥ 2,175 psi (15 MPa) after 24 hours |

ANSI Specification

| Test Method | Specification Standard | Test Results |
|---------------------------------|---|---|
| ANSI A118.7 — compression | 3,000 psi (20,7 MPa) at 28 days | 3,000 to 5,500 psi (20,7 to 37,9 MPa) at 28 days |
| ANSI A118.7 — shrinkage | < 0.20% at 27 days | < 0.20% at 27 days |
| ANSI A118.7 — tensile strength | 500 psi (3,45 MPa) at 28 days | 500 to 600 psi (3,45 to 4,14 MPa) at 28 days |
| ANSI A118.7 – water absorption | < 5% (50% relative humidity to immersion) | < 5% (50% relative humidity to immersion) |
| ANSI A118.7 – flexural strength | 1,000 psi (6,90 MPa) at 28 days | 1,000 to 1,400 psi (6,90 to 9,66 MPa) at 28 days |

Shelf Life and Product Characteristics (before mixing)

| Shelf life | 1 year when stored in original, unopened packaging at 73°F (23°C) in a dry area |
|----------------|--|
| Physical state | Powder |

Application Properties at 73°F (23°C) and 50% relative humidity

| Mixing ratio | Per 10 lbs. (4,54 kg) of grout powder: 1 to 1.1 U.S. qts. (0,95 to 1,04 L) of water Per 25 lbs. (11,3 kg) of grout powder: 2.6 to 2.8 U.S. qts. (2,46 to 2,65 L) of water |
|--|--|
| VOCs (Rule #1168 of California's SCAQMD) | 0 g per L |
| Pot life* | 30 minutes to 1 hour |
| Application temperature range | 50°F and 100°F (10°C and 38°C) |
| Curing time* | 72 hours |

^{*} Pot life and curing time vary based on jobsite conditions, including cold temperatures or high humidity.

Packaging

| Size | |
|------------------------|--|
| Bag: 10 lbs. (4,54 kg) | |
| Bag: 25 lbs. (11,3 kg) | |

Approximate Coverage*

| Per 10 lbs. (4,54 kg). Coverages in sq. ft. (m²). | | | | | | | | |
|---|-------------------|------------|---------------|---------------|--------------|--------------|--------------|--------------|
| Tile Size | Grout Joint Width | | | | | | | |
| | 1/16" | 1/8" | 3/16" | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
| | (1,5 mm) | (3 mm) | (4,5 mm) | (6 mm) | (10 mm) | (12 mm) | (16 mm) | (19 mm) |
| 1" x 1" x 1/4" | 39 | 20 | 13 | 10 | 7 | 5 | 4 | 4 |
| (25 x 25 x 6 mm) | (3,62) | (1,86) | (1,21) | (0,93) | (0,65) | (0,46) | (0,37) | (0,37) |
| 2" x 2" x 1/4" | 78 | 39 | 26 | 20 | 13 | 10 | 8 | 7 |
| (50 x 50 x 6 mm) | (7,25) | (3,62) | (2,42) | (1,86) | (1,21) | (0,93) | (0,74) | (0,65) |
| 3" x 3" x 1/4" | 117 | 59 | 39 | 30 | 20 | 15 | 12 | 10 |
| (75 x 75 x 6 mm) | (10,9) | (5,48) | (3,62) | (2,79) | (1,86) | (1,39) | (1,11) | (0,93) |
| 4" x 8" x 1/2" | 104 (9,66) | 52 | 35 | 26 | 18 | 13 | 11 | 9 |
| (100 x 200 x 12 mm) | | (4,83) | (3,25) | (2,42) | (1,67) | (1,21) | (1,02) | (0,84) |
| 4-1/4" x 4-1/4" x 1/4" | 165 (15,3) | 83 | 55 | 42 | 28 | 21 | 17 | 14 |
| (108 x 108 x 6 mm) | | (7,71) | (5,11) | (3,90) | (2,60) | (1,95) | (1,58) | (1,30) |
| 6" x 6" x 1/4" | 233 (21,6) | 117 | 78 | 59 | 39 | 30 | 24 | 20 |
| (150 x 150 x 6 mm) | | (10,9) | (7,25) | (5,48) | (3,62) | (2,79) | (2,23) | (1,86) |
| 6" x 6" x 1/2" | 117 | 59 | 39 | 30 | 20 | 15 | 12 | 10 |
| (150 x 150 x 12 mm) | (10,9) | (5,48) | (3,62) | (2,79) | (1,86) | (1,39) | (1,11) | (0,93) |
| 6" x 24" x 3/8" | 249 | 125 | 83 | 63 | 42 | 32 | 25 | 21 |
| (150 x 610 x 10 mm) | (23,1) | (11,6) | (7,71) | (5,85) | (3,90) | (2,97) | (2,32) | (1,95) |
| 8" x 8" x 3/8" (200 x 200 x 10 mm) | 207 (19,2) | 104 (9,66) | 69 (6,41) | 52 (4,83) | 35 (3,25) | 26 (2,42) | 21 (1,95) | 18 (1,67) |
| 12" x 12" x 3/8" (300 x 300 x 10 mm) | 311 (28,9) | 156 (14,5) | 104 (9,66) | 78 (7,25) | 52 (4,83) | 39 (3,62) | 32 (2,97) | 26 (2,42) |
| 12" x 24" x 3/8" (300 x 600 x 10 mm) | 414 (38,5) | 207 (19,2) | 138 (12,8) | 104 (9,66) | 69 (6,41) | 52 (4,83) | 42 (3,90) | 35 (3,25) |
| 13" x 13" x 3/8" (330 x 330 x 10 mm) | 337 (31,3) | 169 (15,7) | 113 (10,5) | 85 (7,90) | 57 (5,30) | 43 (3,99) | 34 (3,16) | 29 (2,69) |
| 18" x 18" x 3/8" (457 x 457 x 10 mm) | 466 (43,3) | 233 (21,6) | 156 (14,5) | 117 (10,9) | 78 (7,25) | 59 (5,48) | 47 (4,37) | 39 (3,62) |
| 20" x 20" x 3/8" | 518 | 259 | 173 | 130 | 87 | 65 | 52 | 44 |
| (508 x 508 x 10 mm) | (48,1) | (24,1) | (16,1) | (12,1) | (8,08) | (6,04) | (4,83) | (4,09) |
| 24" x 24" x 3/8" (610 x 610 x 10 mm) | 621 (57,7) | 311 (28,9) | 207 (19,2) | 156 (14,5) | 104 (9,66) | 78 (7,25) | 63 (5,85) | 52 (4,83) |
| 32" x 32" x 3/8" | 828 | 414 | 276 | 207 | 138 | 104 | 83 | 69 |
| (812 x 812 x 10 mm) | (76,9) | (38,5) | (25,6) | (19,2) | (12,8) | (9,66) | (7,71) | (6,41) |

| Per 25 lbs. (11,3 kg). Coverages in sq. ft. (m²). | | | | | | | | |
|---|-------------------|--------|----------|--------|---------|---------|---------|---------|
| Tile Size | Grout Joint Width | | | | | | | |
| | 1/16" | 1/8" | 3/16" | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" |
| | (1,5 mm) | (3 mm) | (4,5 mm) | (6 mm) | (10 mm) | (12 mm) | (16 mm) | (19 mm) |
| 1" x 1" x 1/4" | 97 | 49 | 33 | 25 | 17 | 13 | 10 | 9 |
| (25 x 25 x 6 mm) | (9,01) | (4,55) | (3,07) | (2,32) | (1,58) | (1,21) | (0,93) | (0,84) |
| 2" x 2" x 1/4" | 194 | 97 | 65 | 49 | 33 | 25 | 20 | 17 |
| (50 x 50 x 6 mm) | (18,0) | (9,01) | (6,04) | (4,55) | (3,07) | (2,32) | (1,86) | (1,58) |
| 3" x 3" x 1/4" | 291 | 146 | 97 | 73 | 49 | 37 | 30 | 25 |
| (75 x 75 x 6 mm) | (27,0) | (13,6) | (9,01) | (6,78) | (4,55) | (3,44) | (2,79) | (2,32) |
| 4" x 8" x 1/2" | 259 | 130 | 87 | 65 | 44 | 33 | 26 | 22 |
| (100 x 200 x 12 mm) | (24,1) | (12,1) | (8,08) | (6,04) | (4,09) | (3,07) | (2,42) | (2,04) |
| 4-1/4" x 4-1/4" x 1/4" | 413 | 207 | 138 | 104 | 69 | 52 | 42 | 35 |
| (108 x 108 x 6 mm) | (38,4) | (19,2) | (12,8) | (9,66) | (6,41) | (4,83) | (3,90) | (3,25) |
| 6" x 6" x 1/4" | 582 | 291 | 194 | 146 | 97 | 73 | 59 | 49 |
| (150 x 150 x 6 mm) | (54,1) | (27,0) | (18,0) | (13,6) | (9,01) | (6,78) | (5,48) | (4,55) |
| 6" x 6" x 1/2" | 291 | 146 | 97 | 73 | 49 | 37 | 30 | 25 |
| (150 x 150 x 12 mm) | (27,0) | (13,6) | (9,01) | (6,78) | (4,55) | (3,44) | (2,79) | (2,32) |
| 6" x 24" x 3/8" | 621 | 311 | 207 | 156 | 104 | 78 | 63 | 52 |
| (150 x 610 x 10 mm) | (57,7) | (28,9) | (19,2) | (14,5) | (9,66) | (7,25) | (5,85) | (4,83) |









| 8" x 8" x 3/8" | 518 | 259 | 173 | 130 | 87 | 65 | 52 | 44 |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| (200 x 200 x 10 mm) | (48,1) | (24,1) | (16,1) | (12,1) | (8,08) | (6,04) | (4,83) | (4,09) |
| 12" x 12" x 3/8" | 776 | 388 | 259 | 194 | 130 | 97 | 78 | 65 |
| (300 x 300 x 10 mm) | (72,1) | (36,0) | (24,1) | (18,0) | (12,1) | (9,01) | (7,25) | (6,04) |
| 12" x 24" x 3/8" | 1,035 | 518 | 345 | 259 | 173 | 130 | 104 | 87 |
| (300 x 600 x 10 mm) | (96,2) | (48,1) | (32,1) | (24,1) | (16,1) | (12,1) | (9,66) | (8,08) |
| 13" x 13" x 3/8" | 841 | 421 | 281 | 211 | 141 | 106 | 85 | 71 |
| (330 x 330 x 10 mm) | (78,1) | (39,1) | (26,1) | (19,6) | (13,1) | (9,85) | (7,90) | (6,60) |
| 18" x 18" x 3/8" | 1,164 | 582 | 388 | 291 | 194 | 146 | 117 | 97 |
| (457 x 457 x 10 mm) | (108) | (54,1) | (36,0) | (27,0) | (18,0) | (13,6) | (10,9) | (9,01) |
| 20" x 20" x 3/8" | 1,294 | 647 | 432 | 324 | 216 | 162 | 130 | 108 |
| (508 x 508 x 10 mm) | (120) | (60,1) | (40,1) | (30,1) | (20,1) | (15,1) | (12,1) | (10,0) |
| 24" x 24" x 3/8" | 1,552 | 776 | 518 | 388 | 259 | 194 | 156 | 130 |
| (610 x 610 x 10 mm) | (144) | (72,1) | (48,1) | (36,0) | (24,1) | (18,0) | (14,5) | (12,1) |
| 32" x 32" x 3/8" | 2,069 | 1,035 | 690 | 518 | 345 | 259 | 207 | 173 |
| (812 x 812 x 10 mm) | (192) | (96,2) | (64,1) | (48,1) | (32,1) | (24,1) | (19,2) | (16,1) |

^{*} Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to actual tile size and thickness, exact joint width, job conditions and grouting methods. Consult MAPEI's Technical Services Department or use the grout calculator at www.mapei.com to determine the amount of product needed for project criteria not shown.

RELATED DOCUMENTS

| Technical Bulletin: Grout Cleaning | 041101-T* |
|--|---|
| Grout Troubleshooting Guide | TSIS Reference and Installation Guides* |
| Technical Bulletin: How to Install Grout in Hot Weather | 010404-TB* |

^{*} At www.mapei.com

Refer to the SDS for specific data related to health and safety as well as product handling.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

www.mapei.com. Any alterations to the wording or requirements contained in or derived from this tds shall yoid all related mapei warranties.

Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability.

ANY CLAIM SHALL BE DEEMED WAIVED
UNLESS MADE IN WRITING TO US WITHIN
FIFTEEN (15) DAYS FROM DATE IT WAS,
OR REASONABLY SHOULD HAVE BEEN,
DISCOVERED.

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MAPEI Headquarters of North America

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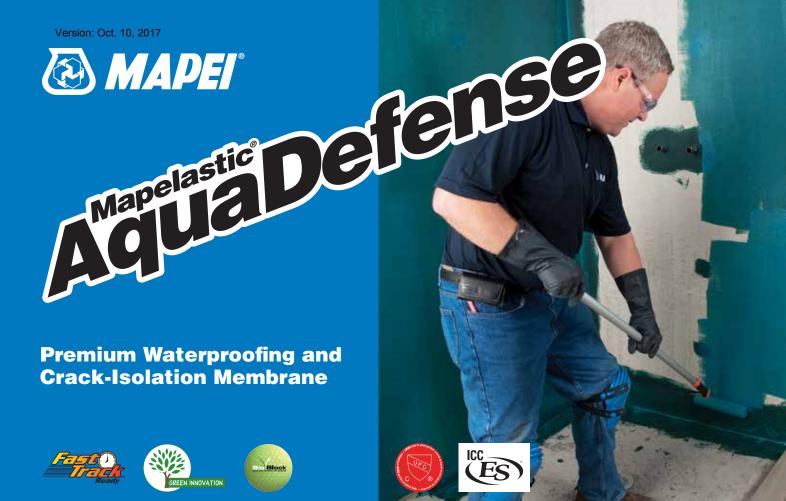
Customer Service

1-800-42-MAPEI (1-800-426-2734)

Services in Mexico

0-1-800-MX-MAPEI (0-1-800-696-2734)

Edition Date: September 20, 2017 PR: 7921 MKT: 17-2246



DESCRIPTION

Mapelastic AquaDefense is a premixed, advanced liquid-rubber, extremely quick-drying waterproofing and crack-isolation membrane for installation under ceramic tile or stone in residential, commercial and industrial environments. Mapelastic AquaDefense provides a thin, continuous barrier to protect adjacent rooms and floors below from water damage. For common problem areas like coves, corners, cracks and drains, it can be combined with MAPEl's optional Reinforcing Fabric or Mapeband™ accessories (cove roll and drain flash) to provide additional protection. Mapelastic AquaDefense dries after about 30 to 50 minutes and is then ready to receive any MAPEl polymer or epoxy mortar. Mapelastic AquaDefense can be flood-tested after 12 hours of drying time, is IAPMO-listed for use as a shower-pan liner, and exceeds ANSI A118.10 and ANSI A118.12 standards.

FEATURES AND BENEFITS

- Very quick drying: Install tile after 30 to 50 minutes of drying time.
- Time-saving: Flood-test as shower-pan liner after 12 hours of drying time.
- Apply with roller or brush easy to install over flat, curved or irregular surfaces
- Bonds to a wide range of surfaces; convenient, user-friendly and versatile
- No odor; great for confined spaces
- Prevents in-plane floor cracks from transmitting through tile or stone

INDUSTRY STANDARDS AND APPROVALS

 ANSI: Exceeds A118.10 standard (Waterproofing Membranes for Thin-Set Ceramic Tile) and A118.12 standard (Crack-Isolation Membranes for Thin-Set Ceramic Tile)

- ASTM: C627 (Robinson) service rating for extra heavy
- ASTM: E-96 Method E, meeting requirements of <0.5 perms
- IAPMO: Listed for use as shower-pan liner
- IAPMO File #3996
- ICC Evaluation Service Report ESR 3474
- Los Angeles Board of Building & Safety Commissioners File Number M-130022

| LEED v3 Points Contribution | LEED Points |
|--|----------------|
| MR Credit 5, Regional Materials* | Up to 2 points |
| IEO Credit 4.2 Low-Emitting Materials – Paints & Coating | s 1 noint |

* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

WHERE TO USE

- Residential and commercial interior/exterior floors, walls and ceilings
- Industrial interior floors and walls
- Tub and shower surrounds: bathrooms; kitchens; food prep, dishwashing, servery and cafeteria areas; countertops; and laundry rooms
- Residential and commercial submerged applications: freshwater pools, fountains and water features (completely covered by ceramic tile)
- Cantilevered balconies and decks over unoccupied space (see the "Limitations" section)
- Balconies and decks over occupied space when used in conjunction with a primary waterproofing membrane



- Steam rooms and steam showers (refer to TCNA handbook's sections SR613 and SR614 or TTMAC 319SR and 321SR).
- Meets ASTM E-96 Procedure E for a low perm waterproof membrane
- In-plane crack isolation up to 1/8" (3 mm) over nonstructural cracks
- MAPEI's Reinforcing Fabric is available but optional for use on coves, corners and field application.

LIMITATIONS

- Mapelastic AquaDefense is not for use over structural cracks, in-plane cracks beyond 1/8" (3 mm) or where vertical out-of-plane movement occurs.
- Do not use over substrates containing asbestos, dimensionally unstable substrates such as hardwood flooring, particleboard, oriented strand board (OSB), Masonite or metal. See "Suitable Substrates" section below.
- <u>Do not use over</u>: Plank flooring, treated plywood, Lauan, gypsum-based floor-patching compounds, vinyl, glazed tile, laminate, fiberglass or epoxy floors, or storage tanks.
- Do not use where excessive substrate moisture and/or where negative hydrostatic pressure exists. Maximum allowable moisture is 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m²) per 24 hours per ASTM F1869 or up to 85% relative humidity as measured with moisture probes.
- <u>Do not use</u>: As a single-application roof-deck membrane, wear surface or primary waterproofing membrane on balconies or decks directly over occupied space or in storage tanks; or with premixed setting materials.
- Do not allow direct contact with solvent-based materials.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

SUITABLE SUBSTRATES

Interior and exterior

- Fully cured concrete at least 28 days old (see "Limitations" section)
- Masonry walls of cement block or brick
- Cured cement mortar beds or leveling coats
- Cement backer units (CBUs)

Interior only

- Gypsum wallboard (walls only, in approved application areas only)
- Properly prepared radiant-heated substrates
- Properly prepared unglazed ceramic tile and cement terrazzo floors, and gypsum underlayments with a minimum of 2,500 psi (17,2 MPa) in compressive strength

Note: Existing unglazed ceramic tile must be abraded, and existing cement terrazzo must be mechanically

- profiled. Both must be skimcoated with an appropriate MAPEI latex- or polymer-modified mortar.
- Exterior-grade plywood (for interior residential floors and countertops in dry areas only)
- PVC, copper, brass and stainless-steel pipe penetrations (abraded)

Tile Council of North America (TCNA) Statement on Deflection Criteria

Floor systems, including the framing system and subfloor panels, over which tile will be installed should be in conformance with the IRC [International Residential Code] for residential applications, the IBC [International Building Code] for commercial applications, or applicable building codes.

Note: The owner should communicate in writing to the project design professional and general contractor the "intended use" of the tile installation, in order to enable the project design professional and general contractor to make necessary allowances for the expected live load, concentrated loads, impact loads, and dead loads including the weight of the tile and setting bed. The tile installer shall not be responsible for any floor framing or subfloor installation not compliant with applicable building codes, unless the tile installer or tile contractor designs and installs the floor framing or subfloor.

SURFACE PREPARATION

- All recommended substrates must be structurally sound, stable, clean and free of any substance preventing adhesion.
- Do not use chemicals (acid etching or stripping) to prepare approved substrates.
- Concrete substrates should have a concrete surface profile of #2 per the International Concrete Repair Institute (ICRI). Mechanically clean and profile by diamond-cup grinding or other engineer-approved method when necessary.
- Substrate and room temperatures must be 45°F to 95°F (7°C to 35°C) during and at least 24 hours after application.
- See MAPEI's "Surface Preparation Requirements" document in the Reference & Installation Guides section of the Tile & Stone Installation Systems page on MAPEI's Website.

MIXING

Choose all appropriate safety equipment before use. Refer to the Safety Data Sheet for details.

- Mix by hand before using.
- 2. Do not dilute with any other material.
- 3. Promptly wash tools with water after mixing.



PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

- Fill all cracks, control joints and gaps in corners and coves that are greater than 1/32" (1 mm) with an appropriate filler material. Force material into crack and finish smooth with trowel. Let dry.
- MAPEI's optional Reinforcing Fabric may be used with Mapelastic AquaDefense in any of the areas shown below (see the section "Optional Use of MAPEI's Reinforcing Fabric").
- MAPEI's Mapeband accessories (cove roll and drain flashing) also may be used with Mapelastic AquaDefense in any of the areas shown below (see the section "Optional Use of Mapeband Accessories").

Pre-treat cracks, corners and coves (floor/wall intersections)

- For expansion and control joints, see the section "Expansion and Control Joints."
- Apply Mapelastic AquaDefense liquid 6" (15 cm) on both sides of cracks, corners and coves with a paintbrush or roller. Let dry to a darkgreen color.
- 3. Apply a second coat and let dry.

Pre-treat drains

- 1 Review drain manufacturer's instructions for waterproof membrane installation in conjunction with these instructions.
- Fill space between drain pipe and substrate with appropriate expansion joint materials (typically foam backer rod and sealant).
- 3. For drains with bolt-down collar and weep holes, loosen and remove bolts from drain flange. Abrade drain flange with sandpaper, and clean and dry thoroughly.
- With paintbrush, apply a liberal coat over and around drain flange.
 Let dry to a dark-green color.
- 5. Apply a second coat and let dry.

Pre-treat openings around pipes and other penetrations

- Pack/fill the openings/spaces between drain pipe and substrate with appropriate expansion joint materials (typically foam backer rod and sealant).
- 2. Apply *Mapelastic AquaDefense* with brush around and up onto floor or wall penetration. Let dry to a dark-green color.
- 3. Apply a second coat and let dry.

Complete the main area

- Apply Mapelastic AquaDefense to entire area to be waterproofed (including previously coated areas such as cracks, drains and penetrations) using a 3/8" (10 mm) nap roller. Let dry to a dark-green color.
- Apply a second coat to entire installation. Let dry 30 to 50 minutes before installing tile or stone.
- Final dry thickness of first and second coats combined in the main area should be about 20 mils at minimum (about the thickness of a credit card).
- Inspect and, as needed, recoat pinholes or areas not completely covered. Let dry.
- Apply bead of silicone or urethane sealant around drain flange at drain throat to join *Mapelastic AquaDefense* to the drain assembly. Leave no voids.

- 6. Bolt down collar to drain flange.
- Where Mapelastic AquaDefense coating ends on any penetration, apply a bead of silicone or urethane sealant.

CLEANUP

 Remove excess Mapelastic AquaDefense (while fresh) with damp sponge, soap and warm water. Any completely dried material may be mechanically removed.

PROTECTION

- Protect from foot traffic, rain and freezing for 24 hours.
- Protect installed Mapelastic AquaDefense from contamination, excessive heat and extended sun exposure until tile or stone is installed.

FLOOD-TESTING (per ASTM D5957)

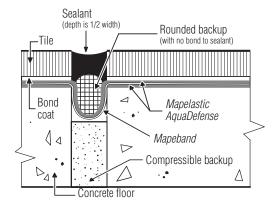
If flood-testing is required, allow *Mapelastic AquaDefense* to cure at least 12 hours at 73°F (23°C) and 50% relative humidity. Actual curing time depends on air and substrate temperature, substrate porosity and humidity. Expect shorter drying times in warmer conditions, longer drying times in cooler conditions.

INSTALLING CERAMIC TILE OR NATURAL STONE

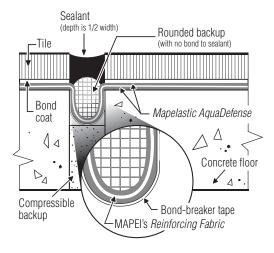
- Mapelastic AquaDefense is ready to receive thin-set mortars for tile or stone when dry to touch (about 30 to 50 minutes after applying second coat).
- Let Mapelastic AquaDefense cure for at least 8 hours before installing medium-bed mortars (for large tile or stone), screeds (for leveling floors) or epoxy adhesives.
- 3. For tile and stone installations, use a MAPEI polymer-modified mortar meeting ANSI A118.4 or ANSI A118.11, or an epoxy mortar meeting ANSI A118.15 ANSI A118.3. For the installation of resilient or wood flooring over *Mapelastic AquaDefense*, adhere to the adhesive recommendations or limitations for use over nonporous substrates.

EXPANSION AND CONTROL JOINTS

Installation with Mapeband:



Installation with MAPEI's Reinforcing Fabric:



- Provide for expansion and control joints as specified per TCNA Method EJ171 or TTMAC Specification Guide 09 30 00 Detail 301EJ. Do not cover expansion joints with mortar.
- If waterproofing integrity is required in expansion and control joints, provide per the above drawing. MAPEI's Reinforcing Fabric or Mapeband can be embedded into the Mapelastic AquaDefense liquid, allowed to dry and filled with appropriate joint sealant or an expansion molding system.
- 3. Protect tilework with metal strips (edge metal) along both edges of structural building expansion joints.

Contact MAPEI's Technical Services Department for more information.

OPTIONAL USE OF MAPEI'S REINFORCING FABRIC

Select fabric size (see packaging chart)

- For coves (floor/wall intersections), allow for 2" (5 cm) of fabric on the floor and 4" (10 cm) up the wall. For cracks, control joints and vertical corners, allow for 3" (7,5 cm) of fabric on each side.
- For drains, cut desired fabric size from 38" (97-cm) wide roll. For floor or wall penetrations, use 6" (15-cm) wide, 38" (97-cm) wide or a combination of both.
- For large areas, the 38" (97-cm) wide roll is recommended.

Cut fabric to size

Cut all required pieces. Set aside.

Pre-treat cracks, control joints, corners, coves, drains, and floor and wall penetrations

- Apply Mapelastic AquaDefense as described in the "Pre-treat" sections above.
- 2. Lay pre-cut pieces of fabric into wet *Mapelastic AquaDefense*. Use brush to press fabric into corners

 until liquid comes through fabric. Work out any wrinkles
 or bubbles.

- While fabric is wet, apply additional Mapelastic AquaDefense over fabric until completely covered to create void-free surface. Let dry to a dark-green color.
- 4. Apply a second coat and let dry.

Install fabric on main area

- Apply the first coat of Mapelastic AquaDefense (including areas previously coated) using a 3/8" (10-mm) nap roller.
- Place fabric into wet liquid on the floor. Using a roller, apply pressure to the fabric, working out wrinkles or bubbles while forcing *Mapelastic AquaDefense* to come through the fabric. Overlap seams and ends of the fabric by 2" (5 cm). While still wet, apply additional *Mapelastic AquaDefense* over the fabric until completely covered, creating a void-free surface. Let dry completely to a dark-green color.
- 3. Apply a second coat of *Mapelastic AquaDefense* to the entire area. Let dry.
- Give a final inspection, looking for pinholes, areas not completely covered and other defects.
- 5. Recoat as needed. Let dry to a dark-green color.
- Apply a bead of commercial-grade silicone or urethane sealant between the membrane and the drain flange, about 1/2" (12 mm) in from the drain opening.
- Bolt the drain collar into place while the sealant is still fresh
- 8. Install ceramic tile or natural stone per the above section "Installing ceramic tile or natural stone."

OPTIONAL USE OF MAPEBAND ACCESSORIES

- MAPEI's Mapeband accessories (cove roll and drain flashing) are waterproof, vapor-proof thin, elastic, deformable, rubber-coated fabric pieces that are fully compatible with Mapelastic AquaDefense and provide the ultimate in "change-of-plane" waterproofing protection for coves, corners and drains. Mapeband accessories are ideal for environments requiring waterproofing but also where temperature extremes, freeze/thaw conditions, vibrations, etc., can cause waterproofing problems.
- Mapeband cove roll can be used in place of MAPEI's
 Reinforcing Fabric on coves, corners and control joints.
 The "felt side" should face into the corner.
- Mapeband drain flashing can be used in place of MAPEI's Reinforcing Fabric on drains. The "felt side" should face down.
- See Mapeband's Technical Data Sheet for installation details.

Product Performance Properties

| Laboratory Tests | Results | |
|------------------|--|--|
| рН | 9 | |
| Viscosity | Approximately 30,000 cps | |
| Density | 1,3 g per mL | |
| Weight | 10.9 lbs. per U.S. gal. (1,3 kg per L) | |



Shelf Life and Product Characteristics (before mixing)

| Shelf life (<i>Mapelastic AquaDefense</i>) | 2 years when stored in original, unopened packaging at 73°F (23°C) | |
|--|--|--|
| Physical state | Liquid | |
| Color | Medium green when wet; dark green when dry | |
| Shelf life (optional <i>Reinforcing Fabric</i>) | Unlimited when stored in original, unopened packaging at 73°F (23°C) | |
| Storage | Store in a cool, dry place. | |

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties at 73°F (23°C) and 50% relative humidity

| Flash point (Seta flash) | Nonflammable | |
|---|---|--|
| VOCs (Rule #1113 of California's SCAQMD) | 0 g per L | |
| Drying time between first and second coats | When dark green and dry to the touch | |
| Drying time after second coat (before applying ceramic tile or stone) | About 30 to 50 minutes (when dark green and dry to the touch) | |
| Drying time before flood-testing | After 12 hours | |
| Final dry thickness (2 coats) | About 20 mils at minimum (about credit-card thickness) | |
| Freeze/thaw stability (liquid) | Up to 5 cycles at 32°F (0°C) | |

Packaging (Mapelastic AquaDefense)

| Size | Approximate Coverage (per 2 coats)* | |
|---|-------------------------------------|--|
| Pail: 1 U.S. gal. (3,79 L) – 4-pack | 60 sq. ft. (5,57 m²) | |
| Pail: 3.5 U.S. gals. (13,2 L) | 210 sq. ft. (19,5 m²) | |
| Pail: 5 U.S. gals. (18,9 L) | 300 sq. ft. (27,9 m²) | |
| Drum: 55 U.S. gals. (208 L) – special order | 3,300 sq. ft. (307 m²) | |

^{*} Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, concrete profile and porosity, type of equipment used, thickness applied, handling and application procedures.

Packaging (optional Reinforcing Fabric)

| Size | Coverage | |
|---|----------------------------------|--|
| Roll: 6" x 75' (15 cm x 22,9 m), 8 per box – To reinforce over cracks, control joints, corners, coves and floor/wall penetrations | 37.5 sq. ft. (3,48 m²) per roll | |
| Roll: 38" x 75' (97 cm x 22,9 m), 1 per box — To reinforce around drains or main area to be waterproofed | 237.5 sq. ft. (22,1 m²) per roll | |

Packaging (Mapeband waterproofing accessories)

| | Size and Color |
|---|---|
| ſ | Drain flashing (blue): 16.75" x 16.75" (43 x 43 cm) |
| ſ | Cove roll (blue): 4.75" x 163 ft. (12 cm x 49,7 m) |







RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for tile and stone installation systems

RGT0309*

Refer to the SDS for specific data related to health and safety as well as product handling.

LEGAL NOTICE

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Edition Date: October 5, 2017 PR: 5593 MKT: 17-2314

^{*} At www.mapei.com



Exhibit 4

Phase I Environmental Site Assessment

Magna Head Start 8275 West 3500 South Magna, Salt Lake County, Utah December 16, 2022

Terracon Project No. 61227470



Prepared for:

Utah Community Action Salt Lake City, Utah

Prepared by:

Terracon Consultants, Inc. Midvale, Utah

terracon.com



Environmental Facilities Geotechnical Materials

December 16, 2022



Utah Community Action 1307 South 900 West Salt Lake City, Utah 84104-1622

Attn: Ian Spangenberg

P: (801) 214-3171

E: ian.spangenberg@utahca.org

Re: Phase I Environmental Site Assessment

Magna Head Start 8275 West 3500 South

Magna, Salt Lake County, Utah Terracon Project No. 61227470

Dear Mr. Spangenberg:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the 'site'). This assessment was performed in accordance with Terracon Proposal No. P61227470 dated November 22, 2022.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Kelly M. Shaw Tina Cheney

Assistant Project Manager ESA Group Manager

Attachments



Terracon Consultants Inc. 6949 S High Tech Dr Ste 100 Midvale, UT 84047-3707

P 801-545-8500 F 801-545-8600 terracon.com

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Magna Head Start Magna, Utah

December 16, 2022 Terracon Project No. 61227470



EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P61227470, dated November 22, 2022 and was conducted consistent with the procedures included in ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The ESA was conducted under the supervision or responsible charge of Tina Cheney, Environmental Professional. Kelly M. Shaw performed the site reconnaissance on December 9, 2022.

Findings and Opinions

A summary of findings is provided below. It should be recognized that 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.

Site Description and Use

The site is an approximately 1.18-acre parcel improved with a 7,163-square-foot single-story building, paved parking, a playground, and field. It is used by Utah Community Action as an administrative office building and classrooms for their preschool program.

Historical Information

The site was an agricultural field and a portion of an apparent orchard in 1937. By 1943 the orchard was removed, and row crops were planted. By 1985 the land was graded and under construction. By 1993 most of the site was an asphalt paved parking with a portion of a grocery store on the easternmost portion of the site. The grocery store and parking lot were removed by 2011 and the present-day building was constructed.

Adjoining to the north was agricultural fields with apparent row crops in 1937. By 1971 the land was developed as residential property. By 1993 the land was an asphalt paved parking lot. The land was commercially developed with a strip plaza by 2013 with an additional strip plaza added to the property by 2015. Adjoining to the east was an apparent orchard in 1937. The orchard was removed and replaced by apparent row crops by 1943. A grocery store was built by 1993 and was demolished by 2011. The present-day fire station was built by 2013. Adjoining to the south was agricultural fields and a portion of an apparent orchard. The orchard was removed and replaced by apparent row crops by 1943. The land was a parking lot by 1993 and the parking lot was demolished, a driveway was built, and the present-day townhomes were under construction beyond by 2021. Adjoining to the west was agricultural fields in 1937. The land was developed with an asphalt paved parking lot by 1985 and by 1993 commercial buildings were built. The buildings were demolished by 2011 and the land has remained vacant to this day. Recognized Environmental Conditions (RECs) were not identified in the historical uses of the site or adjoining properties.

Magna Head Start ■ Magna, Utah December 16, 2022 ■ Terracon Project No. 61227470



Records Review

The site is located within Operable Unit 9 (OU9) of the Kennecott North Zone CERCLIS site. According to information reviewed on the Utah Department of Environmental Quality's website, contaminants of concern (arsenic, cadmium, lead, and selenium) are not present at concentrations above unrestricted land use standards within OU9. As such, this listing does not represent a REC.

Based upon regulatory status, apparent topographical gradient, and/or relative distance from the site, the facilities listed in the database report do not appear to represent RECs to the site at this time.

Site Reconnaissance

During Terracon's site reconnaissance heating and cooling systems, interior floor drains, a padmounted transformer and a dumpster were observed. RECs were not identified during the site reconnaissance.

Adjoining Properties

Adjoining to the north is a Jimmy John's, AT& T Store, Savant Deux, Little Caesars, Sky Salon, Metro PCS Store, 1st Choice Monty Center, Cloud Zone Vape, and Fruty Jicaleta. Adjoining to the east is a Unified Fire Department. To the south is a residential neighborhood of townhomes and adjoining to the west is a vacant lot followed by a Walmart parking lot. RECs were not identified with the adjoining properties.

Significant Data Gaps

No significant data gaps were identified.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 8275 West 3500 South, Magna, Salt Lake County, Utah, the site. RECs, Controlled RECs (CRECs) and/or Significant Data Gaps (SDGs) were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs, CRECs, or SDGs in connection with the site. As such, no additional investigation is warranted at this time.

Magna Head Start ■ Magna, Utah
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1.0 INTRODUCTION

1.1 Site Description

| Site Name | Magna Head Start | |
|---|--|--|
| Site Location/Address 8275 West 3500 South, Magna, Salt Lake County, Utah | | |
| Land Area Approximately 1.18-acre | | |
| Site Improvements | An approximately 7,163 square foot single-story building, paved parking, a playground, and field | |
| Anticipated Future Site Use Continued use as current development/use | | |
| Reason for the ESA | To assist in obtaining program operation funding | |

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P61227470 dated November 22, 2022 and was conducted consistent with the procedures included in ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." A de minimis condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

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1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA 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. No warranties, express or implied, are intended or made. The limitations herein must be considered when the user of this report formulates opinions as to risks associated with the site or otherwise uses the report for any other purpose. These risks may be further evaluated—but not eliminated—through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder. This ESA was further limited by the following:

Historical resources were not available back to the site's first developed use. The earliest standard historical resource indicated the site was agricultural as early as 1937. Based on the generally non-suspect use of the site and surrounding area at that time, this data gap is not deemed significant.

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An evaluation of the significance of limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance, and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products, or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Utah Community Action. Use or reliance by any other party is prohibited without the written authorization of Utah Community Action and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, ESA report, and Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Sections 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Ian Spangenberg, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

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Client Questionnaire Responses

| Client Questionnaire Item | Client Did Not | Client's Response | |
|--|----------------|----------------------|-----|
| | Respond | Yes | No |
| Specialized Knowledge or Experience that is material to a REC in connection with the site. | | | Х |
| Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site. | | | X |
| Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site. | | | *NA |
| Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site. | | | Х |
| Obvious Indicators of Releases at the site. | | | Х |

^{*}Client reported as Not Applicable.

Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 PHYSICAL SETTING

| Physical | Source | | |
|--|---|--|--|
| Topography | | | |
| Site Elevation | Approximately 4,420 feet above sea level | | |
| Topographic Gradient Gently sloping towards the north | | USGS Topographic Map, Magna, Utah Quadrangle, 1999 | |
| Closest Surface Water | Utah and Salt Lake Canal, approximately 850 feet south of the site. | (Appendix A) | |
| | Soil Characteristics | | |
| Soil Type | Red Rock silt loam (Re) | Web Soil Survey | |
| Description Landform: Alluvial fans; Parent Material: Alluvium | | https://websoilsurvey. sc.egov.usda.gov/ | |
| Geology/Hydrogeology | | | |
| Formation | Quaternary lacustrine fine-grained deposits, Lake Bonneville (Qlf) | Interactive Geologic Map Portal | |
| Description Sand, silt, marl, and calcareous clay of Lake Bonneville | | https://geology.utah.gov/ | |

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| Estimated Depth to First Occurrence of Groundwater | Approximately 45 feet | Depth to water measurement at Tesoro No. 62085 LUST site, |
|--|-----------------------|---|
| *Hydrogeologic Gradient | North-northeast | located 565 feet east of site. |

^{*} The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps and selected historical aerial photographs (at approximately 10 to 15-year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site.

- Topographic maps: Magna, Utah, 1952, 1969, 1975, 1978, 1999, 2014, 2017, and 2020 (1:24,000)
- Topographic map: Bingham Canyon, Utah, **1980** (1:50,000)
- Aerial photographs:
 - EDR, 1937, 1943, 1946, 1950, 1965, 1971, 1977, 1980, 1985, 1993,
 1997, 2006, 2011, and 2016, 1" = 500'
 - o Google Earth Pro, various years **1997-2021**, varying scales

Historical Maps and Aerial Photographs

| Direction | Description |
|-----------|---|
| Site | Agricultural fields with apparent row crops and an orchard (1937); orchard gone, apparent row crops (1943–1971); shed appears on the northwest border of the site (1977–1980); land graded, under construction (1985); most of site is an asphalt paved parking lot with a portion of a commercial building on the easternmost portion of the site (1993–2009); parking lot and building demolished, new building under construction (2011), building completed with asphalt paved parking and playground (2013–2021) |

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| Direction | Description |
|-----------|---|
| North | Agricultural fields with apparent row crops (1937–1965); land developed with residences (1971–1980); residences removed, land graded (1985); asphalt paved parking (1993–2009); parking lot demolished, land graded, under construction (2011), asphalt paved parking (2013); building constructed, second building under construction (2015); building completed (2017–2021) |
| East | Apparent orchard (1937); orchard gone, agricultural fields with apparent row crops (1943–1980); land graded, under construction (1985); commercial structure built (1993–2009); building demolished, land graded, under construction (2011); fire station constructed (2013–2021) |
| South | Agricultural fields with apparent row crops and an orchard (1937); orchard gone, apparent row crops (1943–1980); land graded, under construction (1985); asphalt paved parking (1993–2009); parking lot demolished, under construction (2011); asphalt paved parking lot completed (2013–2020); parking lot demolished, driveway constructed with land graded beyond (2021) |
| West | Agricultural fields with apparent row crops (1937–1980); land developed with asphalt paved parking (1985); commercial buildings built (1993–2009); buildings demolished, vacant land (2011–2021) |

3.2 Historical City Directories

The city directories used in this study were made available through EDR (selected years reviewed: 1926–2017) and were reviewed at approximate five-year intervals, if readily available. Street listings not available prior to 1965. The current street address for the site was identified as 8275 West 3500 South.

Historical City Directories

| Direction | Description | | |
|-----------|---|--|--|
| Site | 8275 West 3500 South: No listings (1965–2017) | | |
| | 8225 W 3500 South: No listings (1965–1985); Top Hat Video (1991–1994); Six Star Magna, Top Hat Video (1999); No listings (2001–2017) | | |
| | 8227 W 3500 South: Residential (1965–1985); No listings (1991–2017) | | |
| | 8233 W 3500 South: No listings (1965–2017) | | |
| North | 8235 W 3500 South: No listings (1965–1975); Salon, Sun N Style Tanning & Beauty (1991); Sun N Style (1994); No listings (1999–2014); Jimmy Johns Gourmet Sandwiches (2017) | | |
| | 8237 W 3500 South: No listings (1965–1985); Developmental Day Care (1991); No listings (1994–2017) | | |
| | 8239 W 3500 South: No listings (1965–2017) | | |
| | 8241 W 3500 South: No listings (1965–2017) | | |
| | 8249 W 3500 South: No listings (1965–1991); Arbor Homes (1994); Residential (1995); No listings (1999–2017) | | |

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| Direction | Description |
|-----------|--|
| | 8253 W 3500 South: Residential (1965–1985); No listings (1991–2017) |
| | 8255 W 3500 South: No listings (1965–2017) |
| | 8257 W 3500 South: No listings (1965–2017) 8259 W 3500 South: No listings (1965–2017) |
| North | 8261 W 3500 South: No listings (1965–2017) |
| NOITH | 8263 W 3500 South: No listings (1965–2017) |
| | 8265 W 3500 South: No listings (1965–2017) |
| | 8267 W 3500 South: No listings (1965–1980); Residential (1985); No listings (1991–2017) |
| | 8269 W 3500 South: No listing (1965); Residential (1970–1985); No listings (1991–2017) |
| | 8205 W 3500 South: No listings (1965–1985); Smith Food King (1991); Zion's First National Bank, Smith's Food & Drug Center (1994–2001); Occupant unknown (2004); No listings (2009–2017) |
| East | 8207 W 3500 South : No listings (1965–1991); RTAC (1994); Utah State Government Health Department, Salt Lake County of Health Services, RTAC (1999); Salt Lake WIC Program (2001); No listing (2004); First Samoan United Congrtnal (2009); No listings (2014–2017) |
| | 8211 W 3500 South : No listings (1965–1985); residential (1991); Dairy Queen (1994); Salt Lake Regional Medical Services, Magna Center for Family Medicine (1999); Magna Center Family, Medicine Practice (2001); Physicians Research Options (2004); Exodus Healthcare Network, Magna Center for Family Medicine, Utah Partners for Health (2009); No listings (2014–2017) |
| South | 8215 W 3500 South : Residential (1965–1980); Vacant (1985); Sun N Style (1999–2004); No listings (2009–2017) |
| | 8285 W 3500 South: No listing (1965); Residential (1970–1980); No listings (1985–1994); Packard Bell, Packard Bell Bulletin Board Services (1999); Alorica (2001); Bell Packard (2004); Alorica Inc (2009); No listings (2014–2017) |
| West | 8283 W 3500 South: No listings (1965–2017) |
| Northwest | 8295 W 3500 South : No listings (1965–1980); First Security Bank (1985–1994); No listings 1999–2001); Wells Fargo Bank (2004–2017) |

3.3 Site Ownership

Based on a review of information obtained from the Salt Lake County assessor's records, the current site owner is Salt Lake Community Action Program.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

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3.5 Environmental Liens and Activity and Use Limitations

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were interviewed regarding the current and historical use of the site.

Interviews

| Interviewer | Name / Phone # | Title | Date |
|-------------|-----------------------------------|-------------------------|-----------|
| Kelly Shaw | lan Spangenberg / 801-556-4078 | Chief Auxiliary Officer | 12/9/2022 |

Terracon interviewed Mr. Ian Spangenberg, Chief Auxiliary Officer, during the site reconnaissance. Mr. Spangenberg indicated that he has been familiar with the site for 8 years. Mr. Spangenberg noted that he is not aware of any past, pending, or threatened environmental litigation. Nor is he aware of any possible violations of environmental laws, possible environmental liability, or potential environmental concerns.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. Previous reports were not provided by the client to Terracon for review; however, Terracon previously completed three reports for the client at this location.

Magna Head Start School
 8275 West 3500 South
 Magna, Salt Lake County, Utah

Dated: August 4, 2020

Prepared by: Terracon Consultants (Project No. 61207286)

For: Utah Community Action

Magna Head Start School
 8275 West 3500 South
 Magna, Salt Lake County, Utah

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Dated: September 15, 2017

Prepared by: Terracon Consultants (Project No. 61177518)

For: Utah Community Action

The Terracon 2017 and 2020 ESAs reported the site to consist of an approximately 1.18-acre parcel improved with a 7,163-square-foot single-story building, paved parking, and a playground / field. It is used by Utah Community Action as an administrative office building and classrooms for their preschool program. No RECs were identified in the report and, as such, no further investigation was recommended.

Phase I Environmental Site Assessment – Vacant Grocery Store

8205 West 3500 South, Magna, Utah

Dated: July 13, 2009

Prepared by: IHI Environmental

Project No.: 09E-7112

For: Headstart

The IHI Environmental (IHI) 2009 Phase I Environmental Site Assessment (ESA) reported the site to consist of a 4-acre parcel consisting of a vacant Smith's grocery store and paved parking lot. The property had been agricultural land in the early 1940s and 1950s and was later developed with residences in the 1960s. In the 1980s, it was developed with a grocery store. As noted in Section 3.1, a portion of this grocery store encroached into the current site boundaries. The remainder of the grocery store was positioned on property that adjoins the current site to the east. The grocery store operated until 2006, then remained vacant through 2009, the date of the IHI Phase I ESA. No RECs were identified in the report and, as such, no further investigation was recommended.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company in a report dated November 29, 2022. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

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4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

| Database | Description | Distance (miles) | Listings |
|---|--|-------------------------------|----------|
| CERCLIS / SEMS | Comprehensive Environmental Response, Compensation, & Liability Information / System Superfund Enterprise Management System | 0.5 | 1 |
| CERCLIS / NFRAP / SEMS ARCHIVE | Comprehensive Environmental Response, Compensation, & Liability Information System/No Further Remedial Action Planned / Superfund Enterprise Management System Archived Site Inventory | 0.5 | 0 |
| ERNS | Emergency Response Notification System | Site | 0 |
| IC / EC | Institutional Control/Engineering Control | Site | 0 |
| NPL | National Priorities List | 1 | 0 |
| NPL (Delisted) | National Priorities Delisted List | 0.5 | 0 |
| RCRA CORRACTS/ TSD | RCRA Corrective Action Activity | 1 | 0 |
| RCRA Generators | Resource Conservation and Recovery Act | Site and adjoining properties | 0 |
| RCRA Non- CORRACTS/ TSD | RCRA Non-Corrective Action Activity | 0.5 | 0 |

State/Tribal Databases

| Database | Description | Distance (miles) | Listings |
|-------------|-----------------------------------|-------------------------------|----------|
| Brownfields | Brownfields Assessment Sites | 0.5 | 0 |
| IC | Institutional Controls Sites | Site | 0 |
| LUST | Leaking Underground Storage Tanks | 0.5 | 1 |
| SWF/LF | Solid Waste Facilities/Landfills | 0.5 | 0 |
| UST | Underground Storage Tanks | Site and adjoining properties | 0 |
| VCP | Voluntary Cleanup Program | 0.5 | 0 |

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In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

| Facility Name and Location | Estimated Distance / Direction/Gradient | Database Listings | Findings Summary |
|-------------------------------|---|----------------------|------------------|
| Tesoro #62085 | Approximately 565 feet / east / | LUST | No, based on |
| 8145 West 3500 South | cross-gradient | | discussion below |

Tesoro #62085 (Facility ID 4000759)

This cross-gradient facility is listed on the LUST database. The facility operated as a gas station with three underground storage tanks (USTs) from 1985 to 2019. Multiple releases were reported over the course of its operation, and each was later closed with the Department of Environmental Response and Remediation (DERR) issuing No Further Action (NFA) letters for each incident. One in 1995, 1999, 2009, and 2013. The facility was permanently closed with tank removal in 2019. Based on the regulatory status and gradient from the site, this facility does not represent a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed one facility in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, the facility was not identified as the site or adjacent properties. The facility is listed in the database report in Appendix D.

4.2 Local Agency Inquiries

| Agency Contacted/ | |
|---|---|
| Contact Method | Response |
| United Fire Authority https://unifiedfire.org/records-request/ | A response was received from Ms. Shelli Fowlks on November 30, 2022. According to Ms. Fowlks, no records were found for the site. |
| Salt Lake County Health Department / https://saltlakecountyut.nextrequest.com/ | A response was received from the health department on November 30, 2022. No records of environmental incidents were found for the site. |

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| Agency Contacted/ | |
|----------------------------------|---|
| Contact Method | Response |
| Utah Department of Environmental | The Utah Department of Environmental Quality maintains an |
| Quality, Interactive Map / | online interactive map database of regulatory facilities in the |
| https://enviro.deq.utah.gov/ | state. No records were identified for the site. |

4.3 Local Area Knowledge

The site lies within the boundaries of the Kennecott North Zone, a CERCLIS facility (Facility ID UTD070926811) with several Operable Units (OUs) that have been identified for regulatory oversight by the Utah Department of Environmental Quality (UDEQ) and the US Environmental Protection Agency (EPA) to address impacts resulting from Kennecott's mining activities. Twenty-three OUs were identified with the primary contaminants of concern listed as arsenic, cadmium, lead, and selenium. OU9 consists of the community of Magna and includes the site. Investigations were conducted at the 23 OUs from 1994 through 2002. A Record of Decision (ROD) was finalized in 2002 that specified removal and remediation activities throughout the 23 OUs. Based on the results of investigations conducted in OU9, EPA and UDEQ concluded that remedial action was not necessary, as concentrations of arsenic, copper, and lead in soils are lower than unrestricted land use standards. According to the Five-Year Review Report, dated June 17, 2014, this remedy remains protective of human health and the environment, as no unacceptable exposures were found during site assessment studies and exposure conditions have not changed. Based on the regulatory status and the determination that the current remedy is protective, OU9 does not represent a REC to the site.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

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General Site Information

| Site Reconnaissance | | | |
|---------------------|---|--|--|
| Field Personnel | Kelly M. Shaw | | |
| Reconnaissance Date | December 9, 2022 | | |
| Weather Conditions | Clear, 35 degrees | | |
| Site Contact/Title | Ian Spangenberg / Chief Auxiliary Officer | | |

| Building Description | | | | | |
|-------------------------------------|-----------------------------------|----------------------------------|-------------------------|-----------------------|--|
| Building Identification | Building Use | Approx. Construction Date | Number of Stories | Approx. Size (ft²) | |
| Main Building | Offices and Head Start pre-school | 2011 | 1 | 7,163 | |
| Site Utilities | | | | | |
| Drinking Water Magna Water District | | | | | |
| Wastewater | Magna Sewer Improvem | Magna Sewer Improvement District | | | |
| Electric | Rocky Mountain Power | | | | |
| Natural Gas | Dominion Energy | Dominion Energy | | | |

5.2 Overview of Current Site Occupants

The site is occupied by Utah Community Action, a non-profit organization that administers a Head Start preschool program at this location.

5.3 Overview of Current Site Operations

The site is used for administrative activities and as a facility for a Head Start preschool with offices, classrooms, a field, and a playground.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

| Category | Item or Feature | Observed or Identified |
|---|----------------------|---------------------------|
| Site Operations, Processes, and Equipment | Emergency generators | |
| | Elevators | |
| | Air compressors | |

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| Category | Item or Feature | Observed or Identified |
|-------------------------------------|--|---------------------------|
| | Hydraulic lifts | |
| | Dry cleaning | |
| | Photo processing | |
| | Ventilation hoods and/or incinerators | |
| | Waste treatment systems and/or water treatment systems | |
| | Heating and/or cooling systems | Х |
| | Paint booths | |
| | Sub-grade mechanic pits | |
| | Wash-down areas or carwashes | |
| | Pesticide/herbicide production or storage | |
| - | Printing operations | |
| | Metal finishing (electroplating, chrome plating, galvanizing, etc.) | |
| | Salvage operations | |
| | Oil, gas, or mineral production | |
| | Other processes or equipment | |
| Aboveground | Aboveground storage tanks | |
| Chemical or Waste | Drums, barrels, and/or containers ≥ 5 gallons | |
| Storage | MSDS or SDS | |
| | Underground storage tanks or ancillary UST equipment | |
| | Sumps, cisterns, French drains, catch basins, and/or dry wells | |
| Underground | Grease traps | |
| Chemical or Waste Storage, Drainage | Septic tanks and/or leach fields | |
| or Collection Systems | Oil/water separators, clarifiers, sand traps, triple traps, interceptors | |
| | Pipeline markers | |
| | Interior floor drains | X |
| Electrical Transformers/ | Transformers and/or capacitors | X |
| PCBs | Other equipment | |

Magna Head Start Magna, Utah

December 16, 2022 Terracon Project No. 61227470



| Category | Item or Feature | Observed or Identified |
|-----------------------------------|--|---------------------------|
| Releases or Potential Releases | Stressed vegetation | |
| | Stained soil | |
| | Stained pavement or similar surface | |
| | Leachate and/or waste seeps | |
| | Trash, debris, and/or other waste materials | Х |
| | Dumping or disposal areas | |
| | Construction/demolition debris and/or dumped fill dirt | |
| | Surface water discoloration, odor, sheen, and/or free-floating product | |
| | Strong, pungent, or noxious odors | |
| | Exterior pipe discharges and/or other effluent discharges | |
| Other Notable Site Features | Surface water bodies | |
| | Quarries or pits | |
| | Wastewater lagoons | |
| | Wells | |

Site Operations, Processes, and Equipment

Heating and/or cooling systems

The building is heated and cooled by roof-mounted package units fueled by natural gas and powered by electricity. No RECs were identified with the heating and cooling systems.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Interior floor drains

Interior floor drains were observed in the restrooms and kitchen. According to Mr. Spangenberg the floor drains discharge to the municipal sewer system. Potentially hazardous materials and/or petroleum products were not stored in the vicinity of the floor drains at the time of the site reconnaissance. Staining and/or releases to the floor drains was not observed during the site reconnaissance. The floor drains do not represent a REC to the site.

Electrical Transformers/PCBs

Transformers and/or capacitors

During Terracon's site visit, one pad-mounted transformer, owned and serviced by Rocky Mountain Power, was observed on the north side of the site. A Non-PCB sticker was observed.

Rocky Mountain Power responsibility for the transformers, and if the transformers were "PCB contaminated," Rocky Mountain Power is not required to replace the transformer fluids until a

Magna Head Start ■ Magna, Utah
December 16, 2022 ■ Terracon Project No. 61227470



release is identified. However, evidence of current or prior releases was not observed in the vicinity of the electrical equipment during the site reconnaissance.

Releases or Potential Releases

Trash, debris, and/or other waste materials

One solid waste disposal dumpster was observed near the northwest corner of the site. Staining, noxious odors, or hazardous waste disposal were not observed in the vicinity of the on-site dumpster. The dumpster is not a REC to the site.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

| Direction | Description |
|-----------|---|
| North | Jimmy John's, AT& T Store, Savant Deux, Little Caesars, Sky Salon, Metro PCS Store, 1st Choice Monty Center, Cloud Zone Vape and Fruty Jicaleta |
| East | Unified Fire Authority fire station. |
| South | Residential neighborhood of townhomes |
| West | Vacant lot followed by a Walmart parking lot |

RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

Magna Head Start ■ Magna, Utah December 16, 2022 ■ Terracon Project No. 61227470

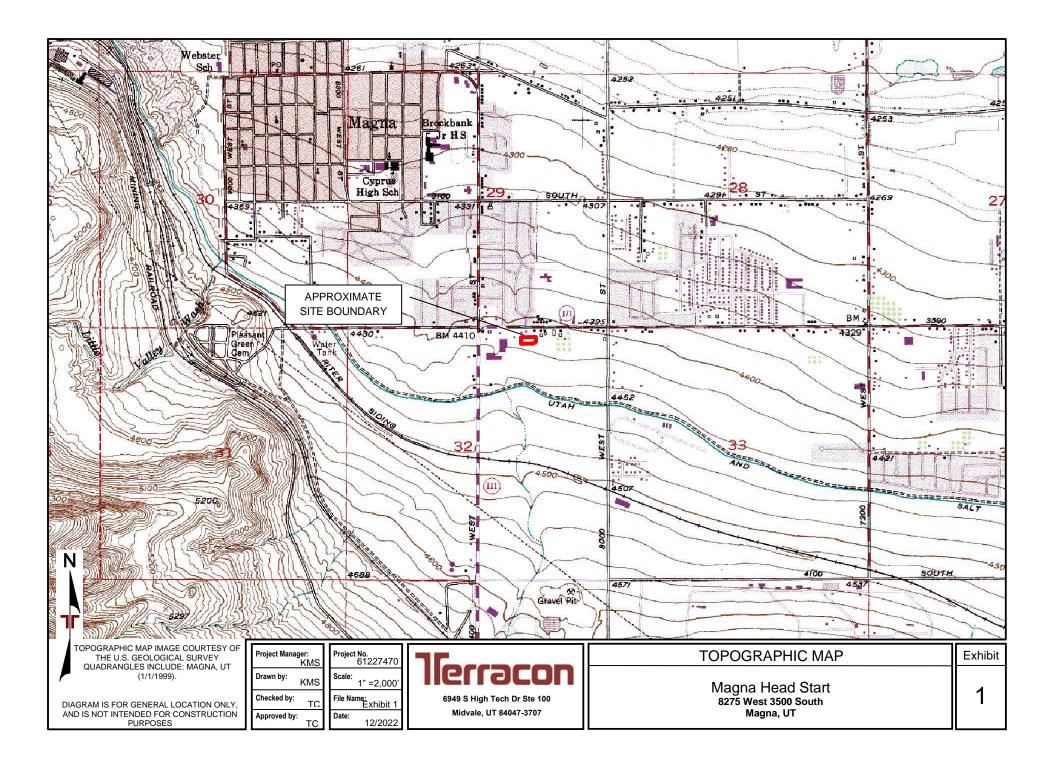


8.0 DECLARATION

I, Tina Cheney, declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Tina Cheney ESA Group Manager

APPENDIX A EXHIBIT 1: TOPOGRAPHIC MAP EXHIBIT 2: SITE DIAGRAM





AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Drawn by:

KMS Checked by:

File Name: 12/2022 Approved by: Date: 12/2022

Scale: AS SHOWN

6949 S High Tech Dr Ste 100 Midvale, UT 84047-3707

Magna Head Start 8275 West 3500 South Magna, UT

APPENDIX B SITE PHOTOGRAPHS





Photo #1 Looking east across the site from the west boundary.



Photo #2 Hallway



Photo #3 Typical classroom



Photo #4 Kitchen

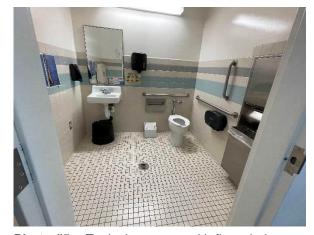


Photo #5 Typical restroom with floor drain.



Photo #6 Janitor closet





Photo #7 Transformer on north boundary.



Photo #8 North adjoining plaza.



Photo #9 North adjoining plaza.



Photo #10 East adjoining fire station.



Photo #11 South adjoining townhomes.



Photo #12 West adjoining driveway and vacant lot followed by the Walmart parking lot.

| HISTORICAL DOCUMEN | APPENDIX C NTATION AND USEI | R QUESTIONNAIRE |
|--------------------|--------------------------------|-----------------|
| | | |
| | | |
| | | |

ASTM E1527-21 User Questionnaire



| Date Completed: | Lu Teir- Lei erz | |
|---|---|---|
| Person Completing | 11/28/2022 | Dhana A a a a a a a a a a a a a a a a a a |
| Questionnaire | Name: Ian Spangenberg | Phone: 801-214-3171 Email: 19n. Spangenberg & utahca, org |
| Site Name | Magna Head Start | 19n. Spangenberg & Utahca, org |
| | magna rioda Start | |
| Site Address | 8275 West 3500 South, Magna, Utah | |
| Point of Contact for Access | Name: In Spangenberg | Phone: 801-214-317/ |
| I A B1-I III B | Company: utah Community Action X No Yes (If yes, please explain) | Email: ian. Spangenberg @ Utahca.org |
| Access Restrictions or Special Site Requirements? | X_NoYes (If yes, please explain) | |
| Confidentiality Requirements? | X_NoYes (If yes, please explain) | - (%) |
| Current Site Owner | Name: Company: Utah Community Action | Phone: Email: |
| Current Site Operator | Name: Company: utah Community Action | Phone: Email: |
| Reasons for ESA (e.g., financing, acquisition, lease, etc.) | Quilding Addition | ÷ ' |
| Anticipated Future Site Use | Head Start Preschool | |
| Relevant Documents? | | II ESAs, Asbestos Surveys, Environmental Permits or |
| | | cuments, Geotechnical Investigations, Site Surveys, |
| | Diagrams or Maps, or other relevant reports or docum | nents. |
| 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 user must respond to the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete. 1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)? NoYes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.) | | |
| controls, land use restrictions, or instribal, state, or local law (40 CFR 31 | stitutional controls that are in place at the site and/or ha 2.26)? | activity and use limitations (AULs), such as engineering two been filed or recorded against the site under federal, |
| | low and send Terracon a copy of the title records or jud | |
| 3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312-28)? | | |
| X_NoYes (If yes, explain below) 4) Does the purchase price being paid for this site reasonably reflect the fair market value of the property? If you conclude that there is a | | |
| difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the site? | | |
| NoYes X_Not applicable (If yes or Not applicable, explain below) | | |
| 5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) | | |
| Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site? | | |
| NoYes (If yes, explain below) | | |
| 6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of | | |
| releases at the site (40 CFR 312.31)? NoYes (If yes, explain below) | | |
| Comments or explanations: | | |
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Magna Head Start 8275 West 3500 South Magna, UT 84044

Inquiry Number: 7189623.4

November 29, 2022

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

11/29/22

Site Name: Client Name:

Magna Head Start Terracon

8275 West 3500 South 6949 South High Tech Drive Magna, UT 84044 Midvale, UT 84047

EDR Inquiry # 7189623.4 Contact: Kelly Shaw



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

| Search Resi | ults: | Coordinates: | |
|-------------|----------|---------------|-------------------------------|
| P.O.# | 0 | Latitude: | 40.695671 40° 41' 44" North |
| Project: | 61227470 | Longitude: | -112.088392 -112° 5' 18" West |
| - | | UTM Zone: | Zone 12 North |
| | | UTM X Meters: | 408044.00 |
| | | UTM Y Meters: | 4505544.08 |
| | | Elevation: | 4418.25' above sea level |
| Maps Provid | ded: | | |

2020 1952

201720141999

1978 1975 1969

1980

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2020 Source Sheets



Magna 2020 7.5-minute, 24000

2017 Source Sheets



Magna 2017 7.5-minute, 24000

2014 Source Sheets



Magna 2014 7.5-minute, 24000

1999 Source Sheets



Magna 1999 7.5-minute, 24000 Aerial Photo Revised 1997

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1980 Source Sheets



BINGHAM CANYON 1980 15-minute, 50000

1978 Source Sheets



Magna 1978 7.5-minute, 24000 Aerial Photo Revised 1975

1975 Source Sheets



Magna 1975 7.5-minute, 24000 Aerial Photo Revised 1975

1969 Source Sheets



Magna 1969 7.5-minute, 24000 Aerial Photo Revised 1969

Topo Sheet Key

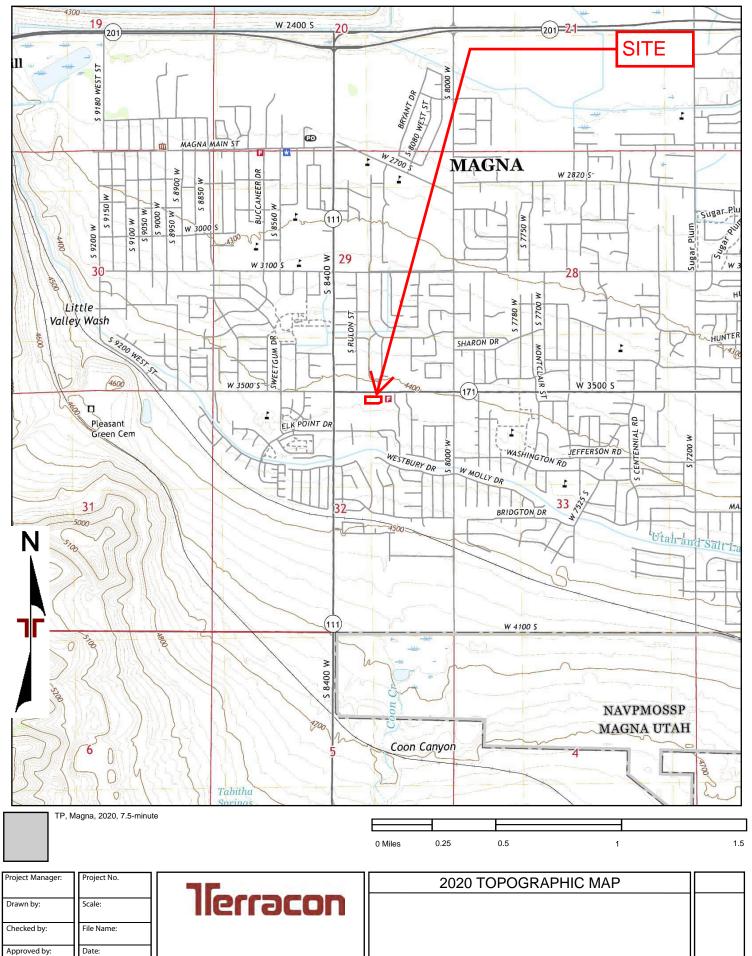
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1952 Source Sheets

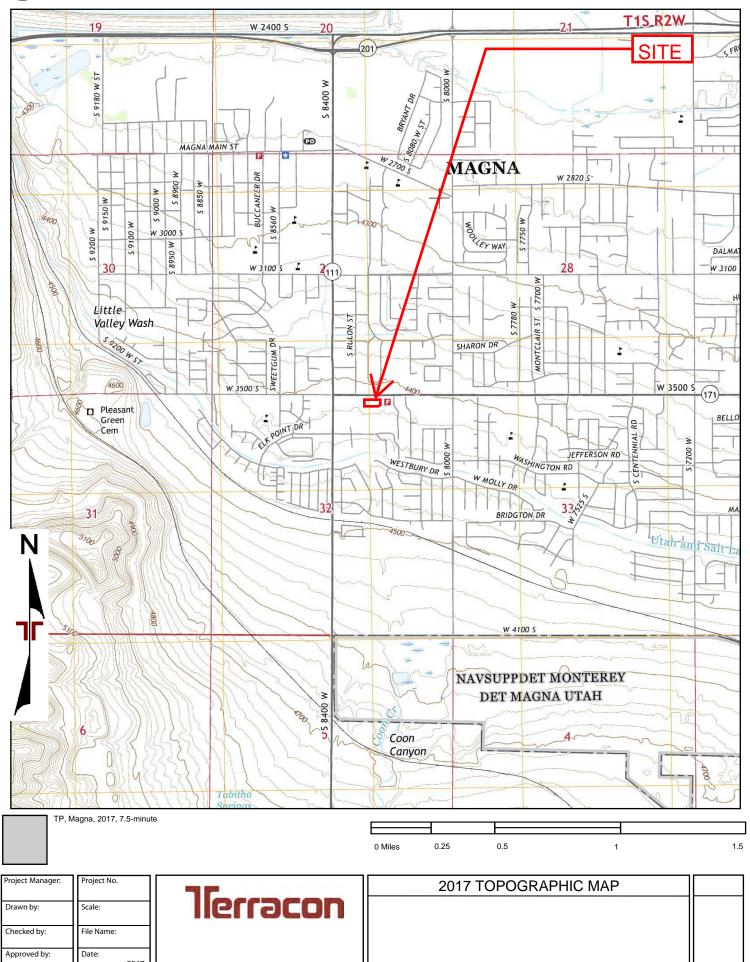


Magna 1952 7.5-minute, 24000 Aerial Photo Revised 1950

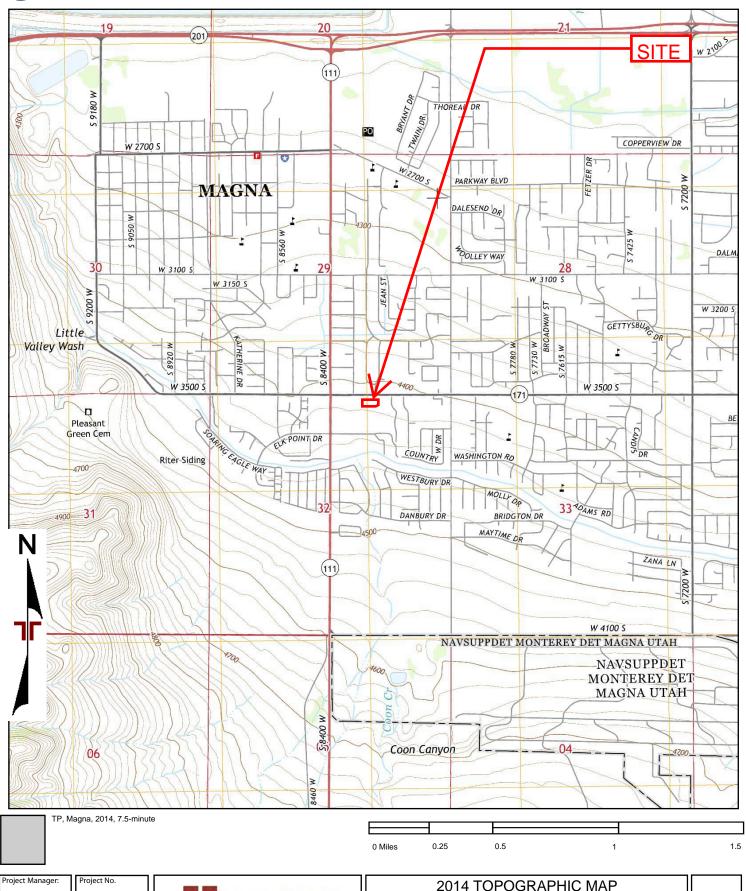








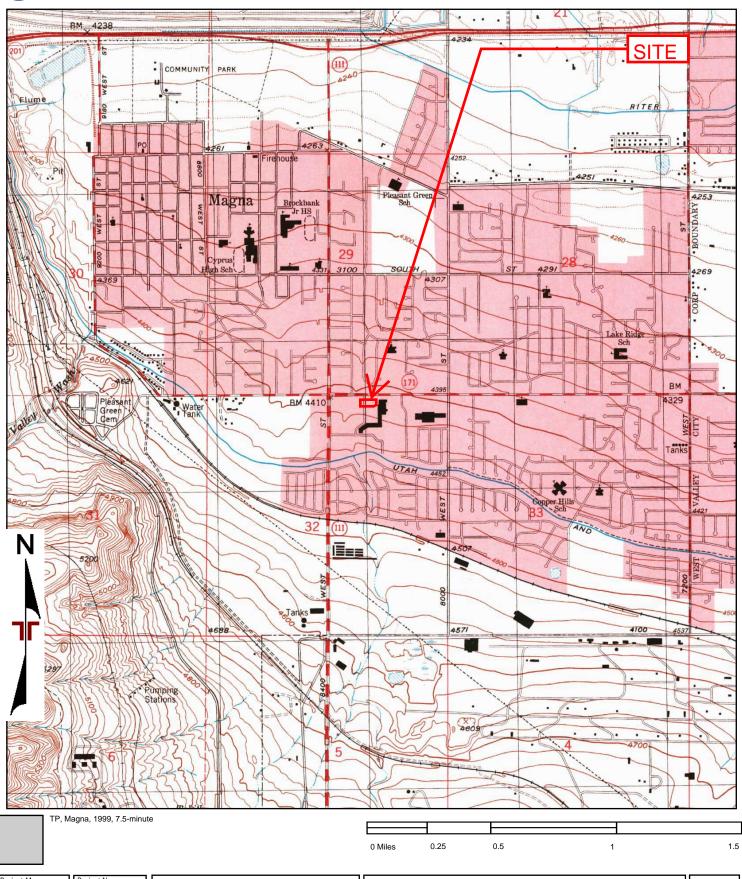




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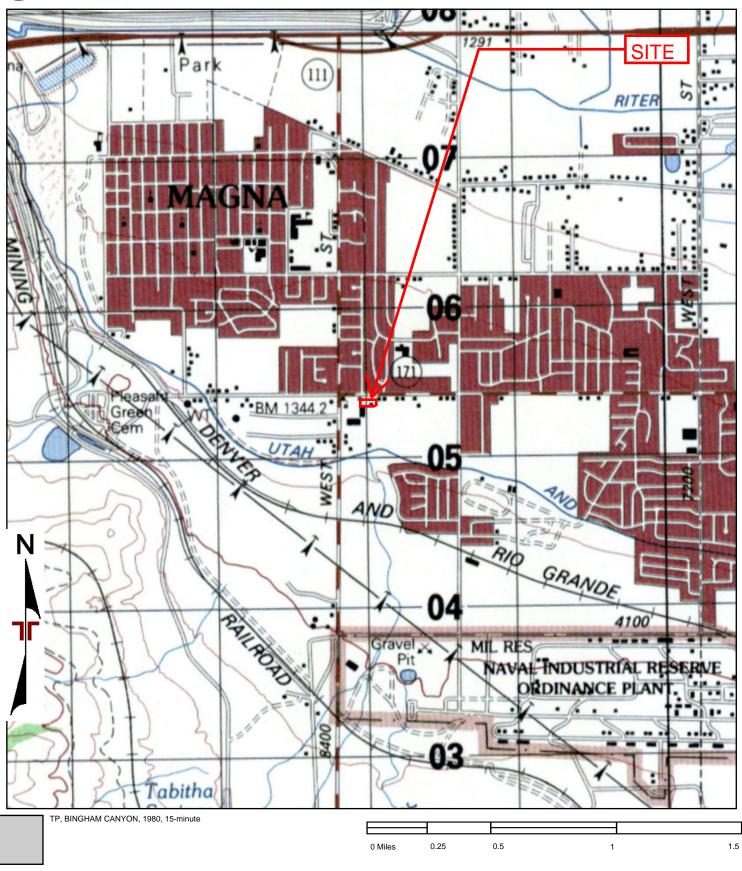


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| 1999 TOPOGRAPHIC MAP | |
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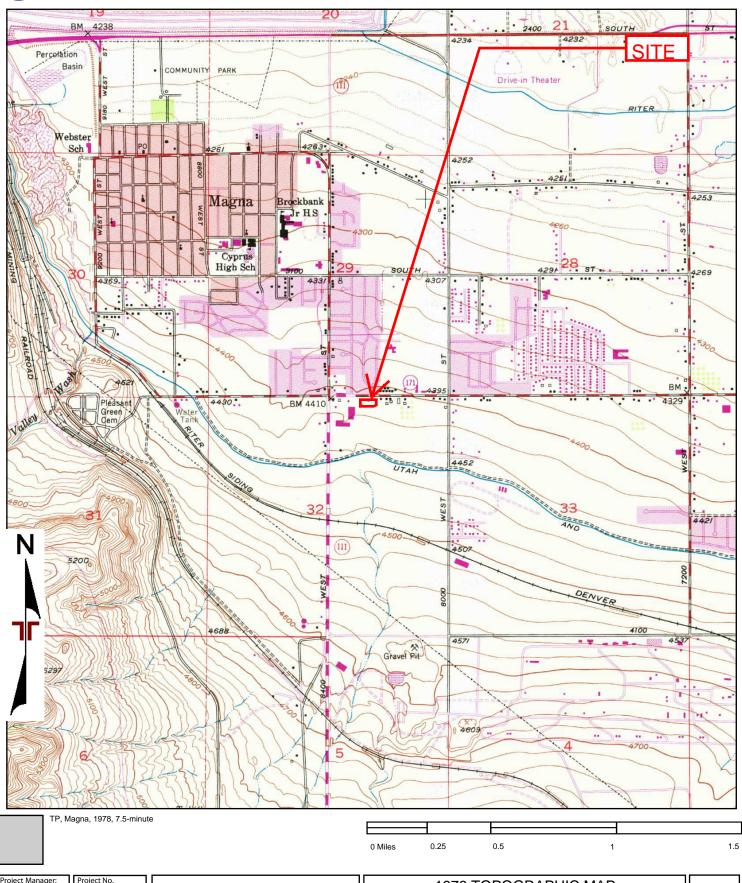




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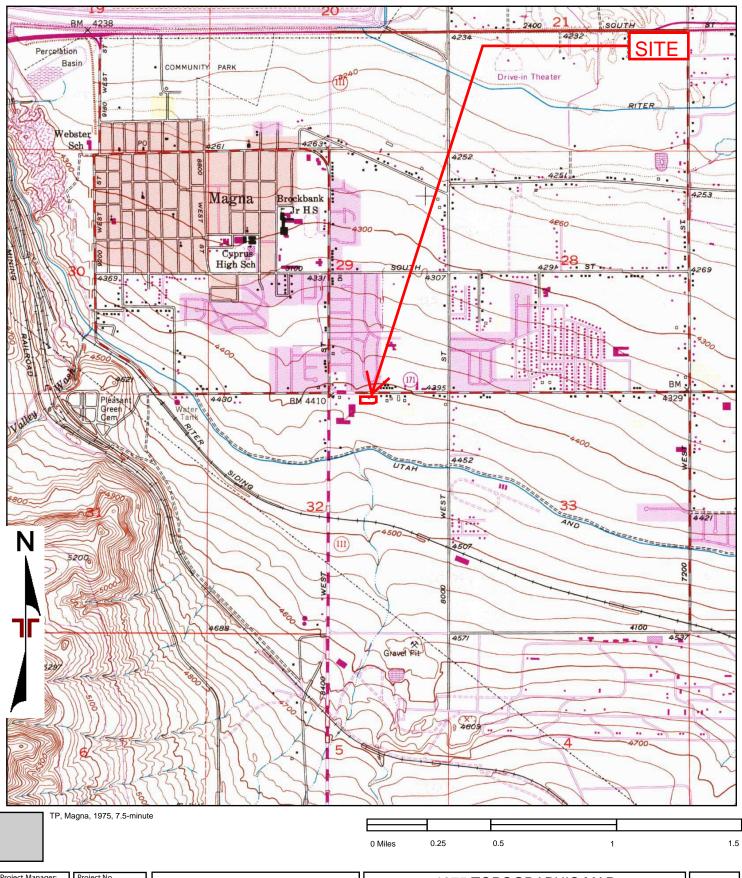




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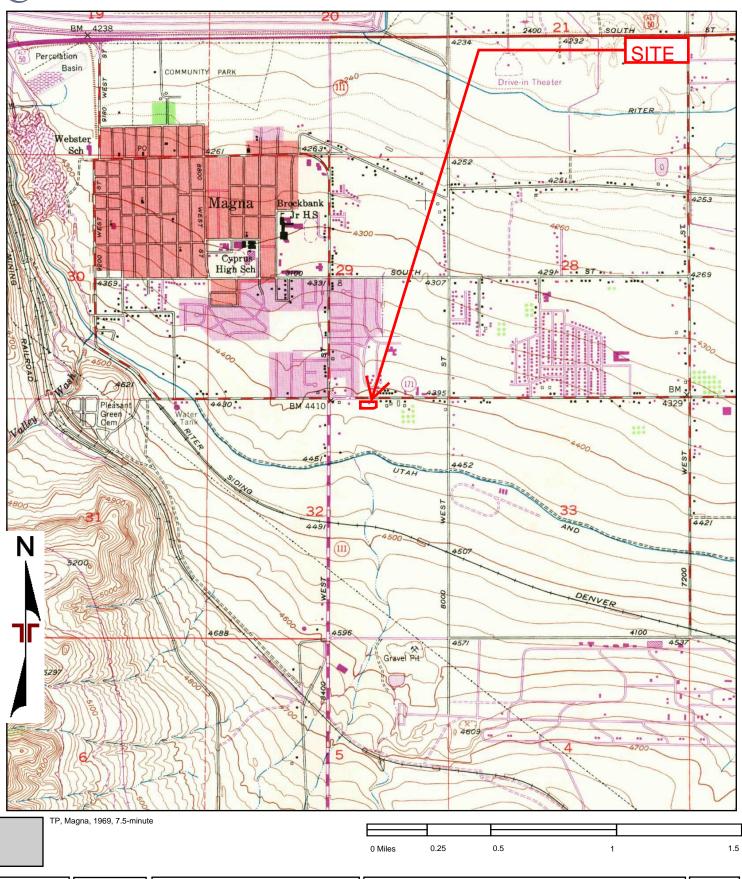




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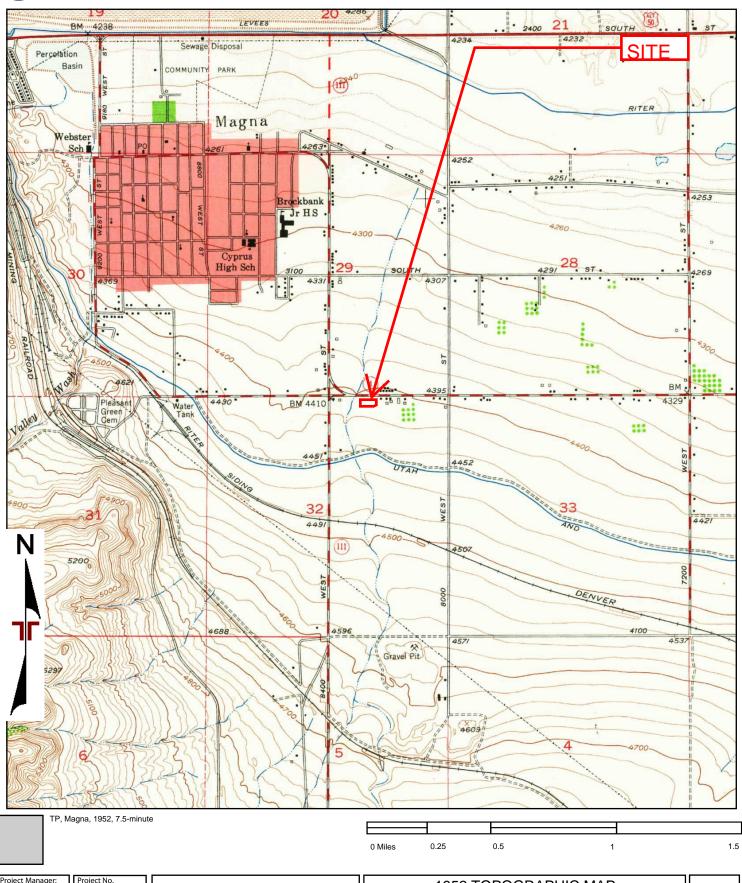




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Magna Head Start

8275 West 3500 South Magna, UT 84044

Inquiry Number: 7189623.8

November 29, 2022

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

11/29/22

Site Name: Client Name:

Magna Head Start

8275 West 3500 South 6949 South High Tech Drive Magna, UT 84044 Midvale, UT 84047 EDR Inquiry # 7189623.8 Contact: Kelly Shaw



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.

Terracon

Search Results:

| Year | Scale | Details | Source |
|------|---------|---------------------------------|-----------|
| 2016 | 1"=500' | Flight Year: 2016 | USDA/NAIP |
| 2011 | 1"=500' | Flight Year: 2011 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 1997 | 1"=500' | Acquisition Date: July 16, 1997 | USGS/DOQQ |
| 1993 | 1"=500' | Flight Date: August 17, 1993 | USGS |
| 1985 | 1"=500' | Flight Date: July 25, 1985 | USDA |
| 1980 | 1"=500' | Flight Date: August 28, 1980 | USGS |
| 1977 | 1"=500' | Flight Date: June 28, 1977 | USDA |
| 1971 | 1"=500' | Flight Date: October 09, 1971 | USDA |
| 1965 | 1"=500' | Flight Date: July 26, 1965 | USDA |
| 1950 | 1"=500' | Flight Date: August 01, 1950 | USGS |
| 1946 | 1"=500' | Flight Date: August 18, 1946 | USDA |
| 1943 | 1"=500' | Flight Date: October 09, 1943 | USGS |
| 1937 | 1"=500' | Flight Date: October 09, 1937 | USDA |

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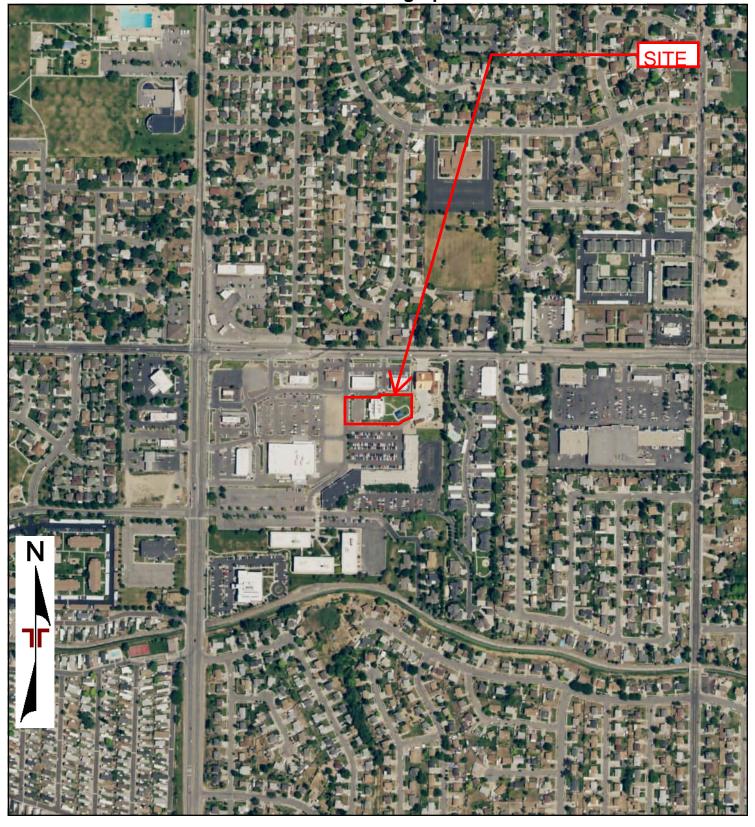
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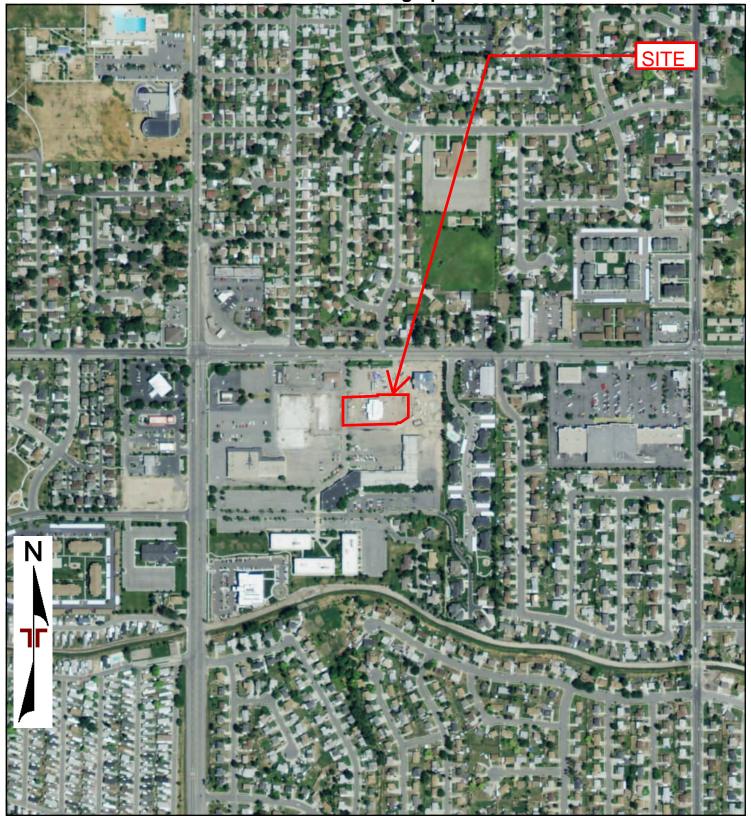
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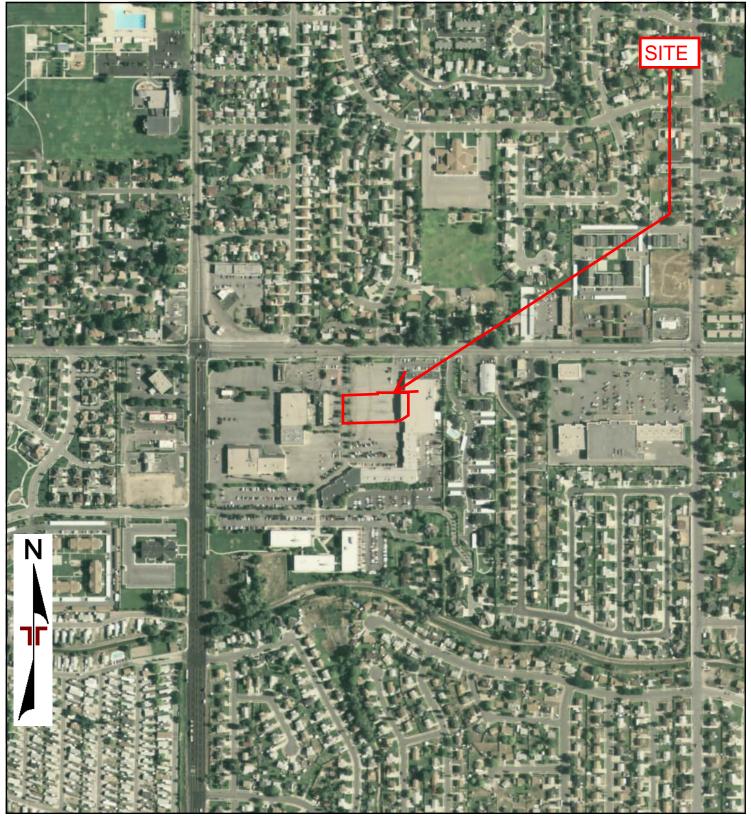
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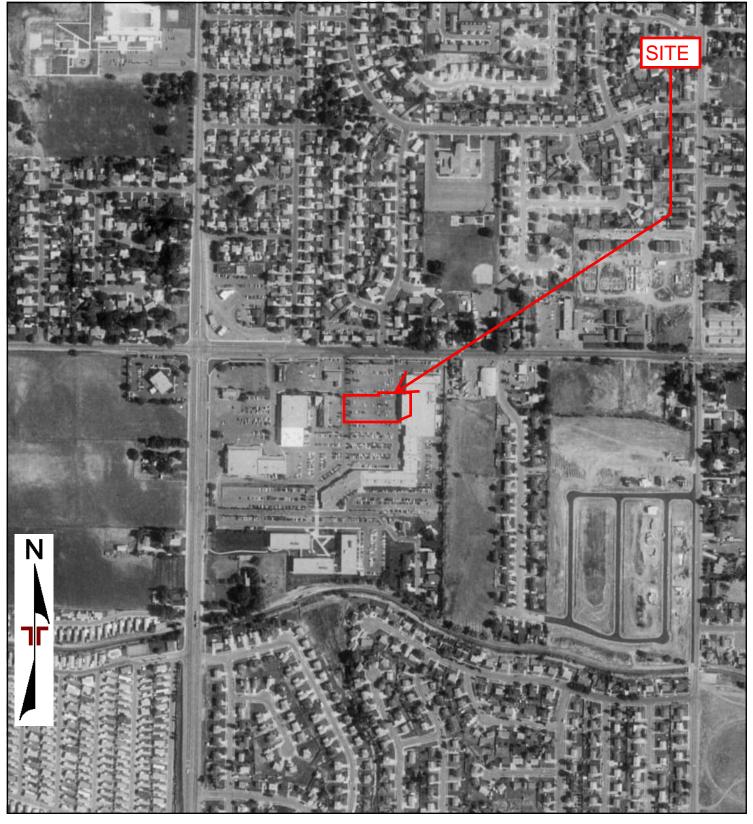
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2006

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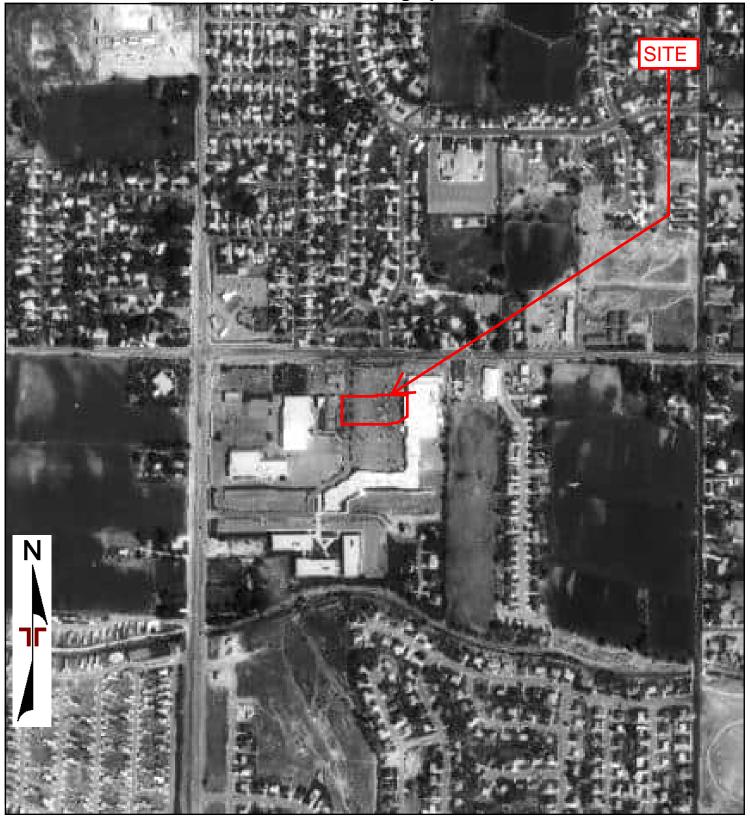
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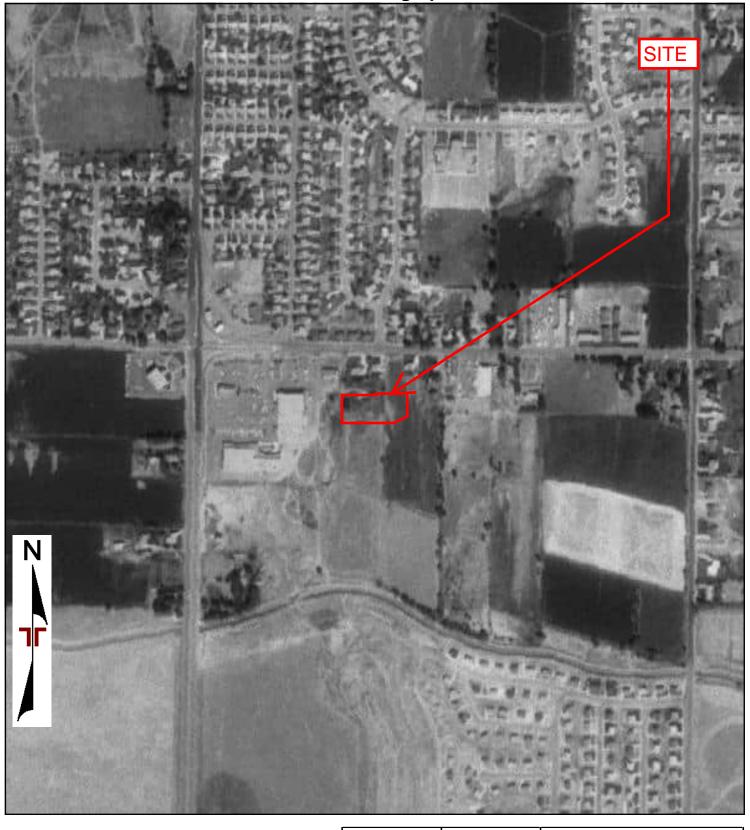
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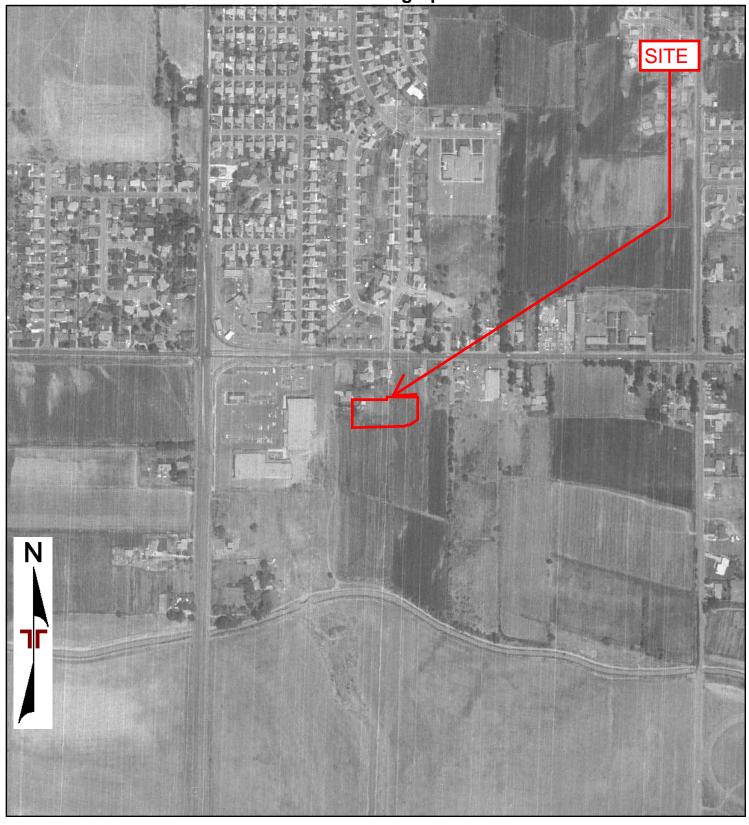


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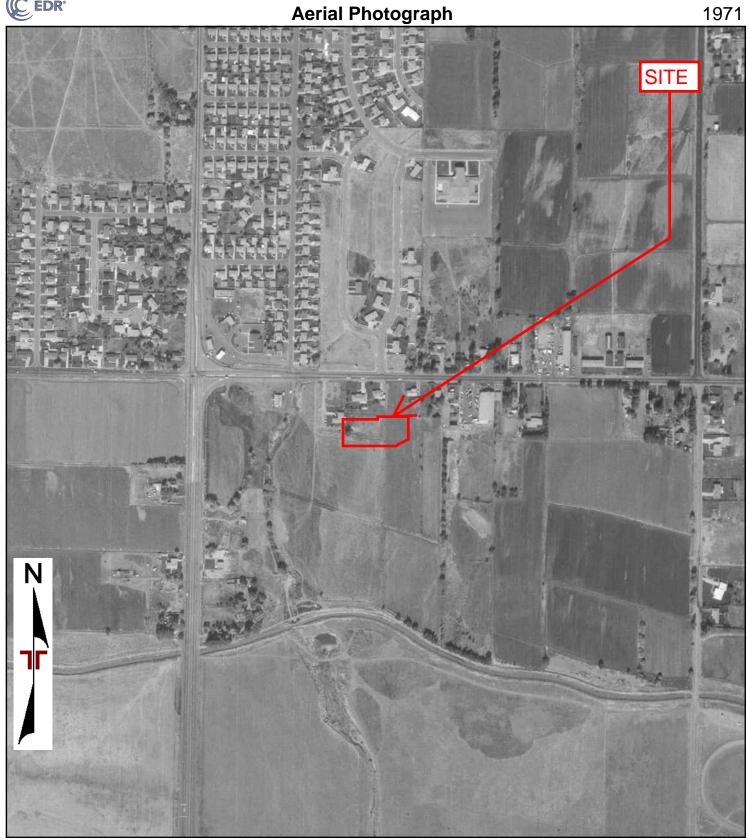
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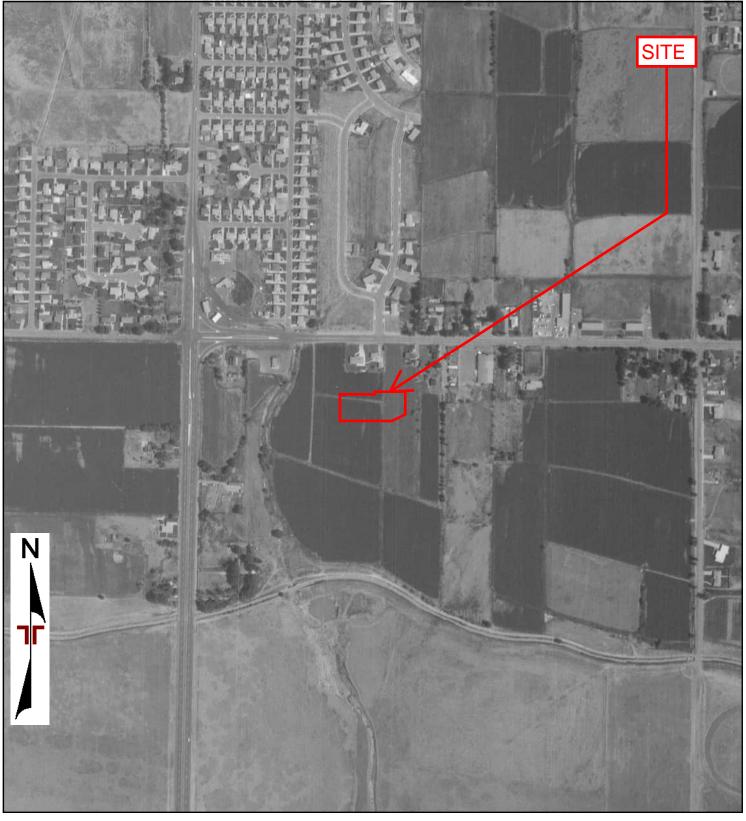
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Aerial Photograph



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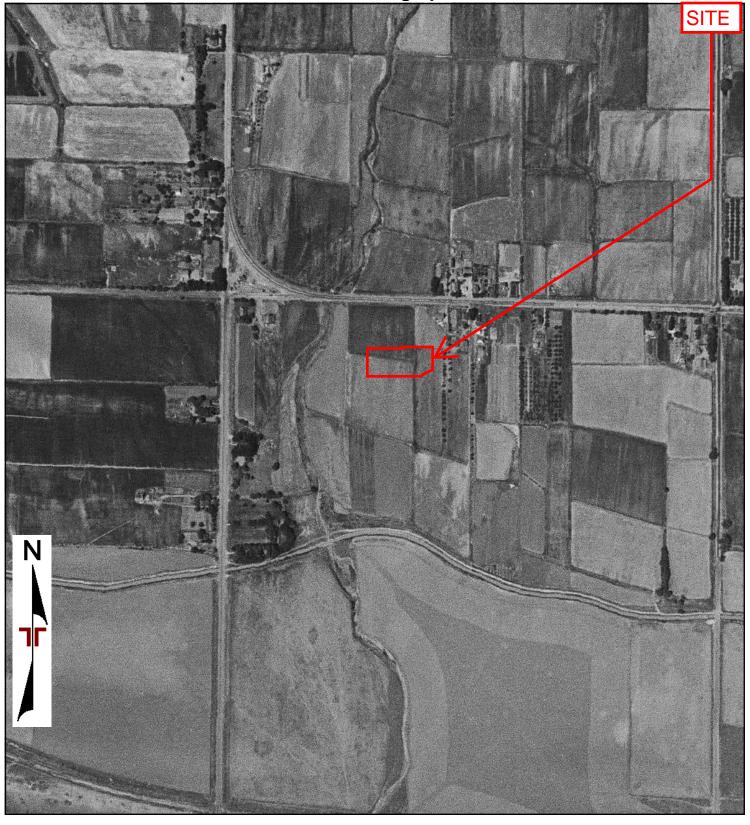
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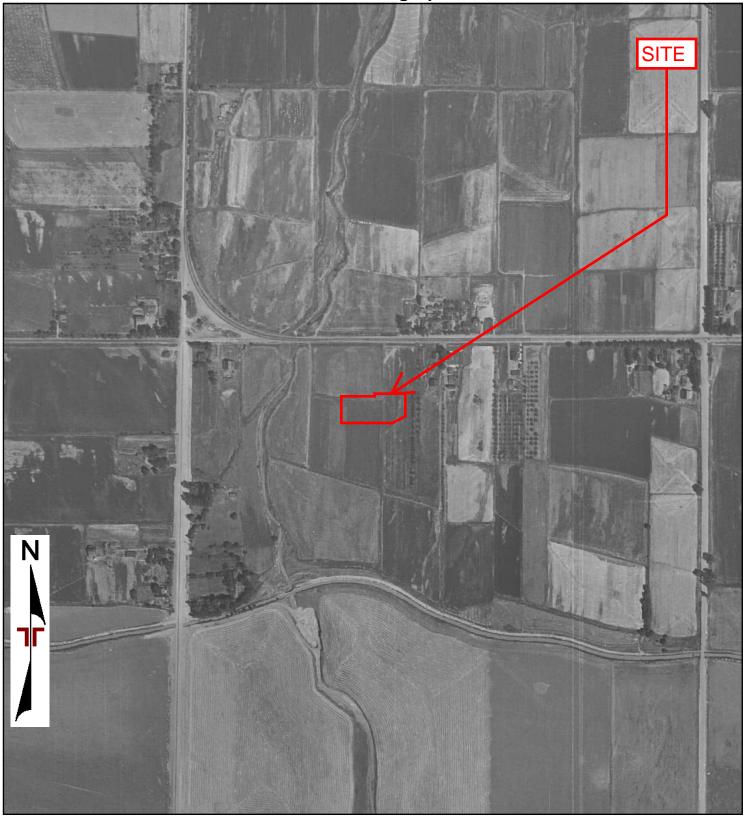
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Scale:

File Name:

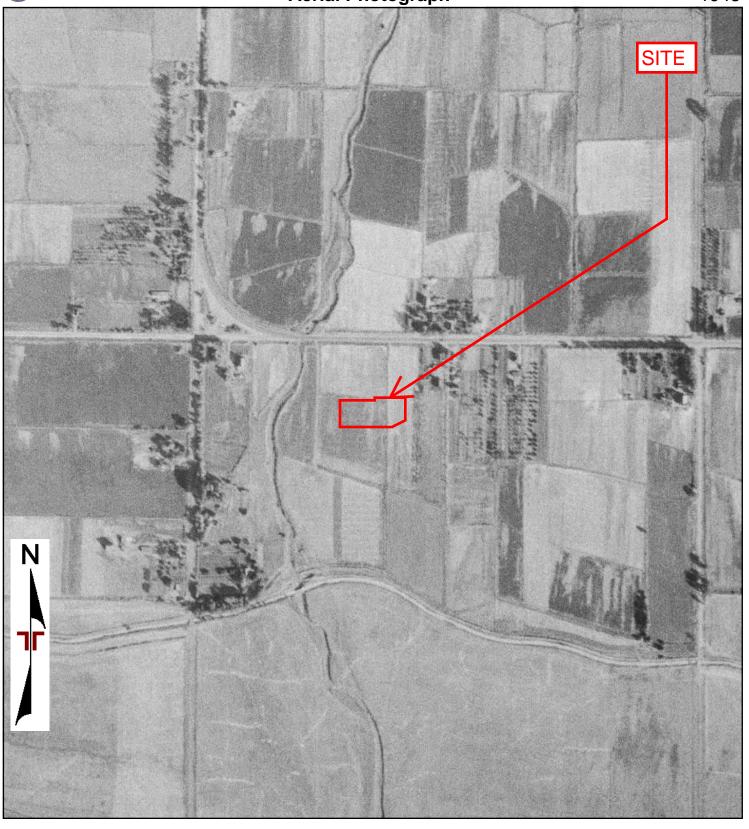
Date:

1946

| 1946 AERIAL PHOTOGRAPH | |
|------------------------|--|
| | |
| | |
| | |
| | |



Aerial Photograph



0 Feet 500

1943 AERIAL PHOTOGRAPH

1000

Project Manager: Project No:

Drawn By: Scale:

Checked By: File Name:

Checked By: File Name:

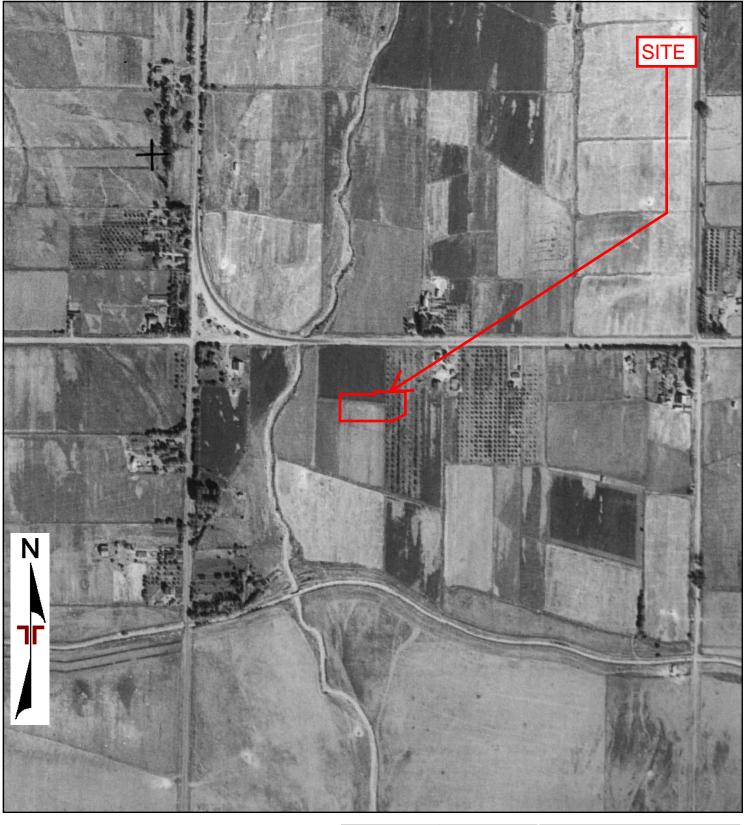
Approved By: Date: 1943



2000



Aerial Photograph



0 Feet

500

1000

2000

Project Manager:

Drawn By:

Checked By:

Approved By:

Project No:

Scale:

File Name:

Date:

1937



| 1937 AERIAL PHOTOGRAPH | |
|------------------------|--|
| | |
| | |
| | |
| | |

APPENDIX D ENVIRONMENTAL DATABASE INFORMATION

Magna Head Start 8275 West 3500 South Magna, UT 84044

Inquiry Number: 7189623.2s

November 29, 2022

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 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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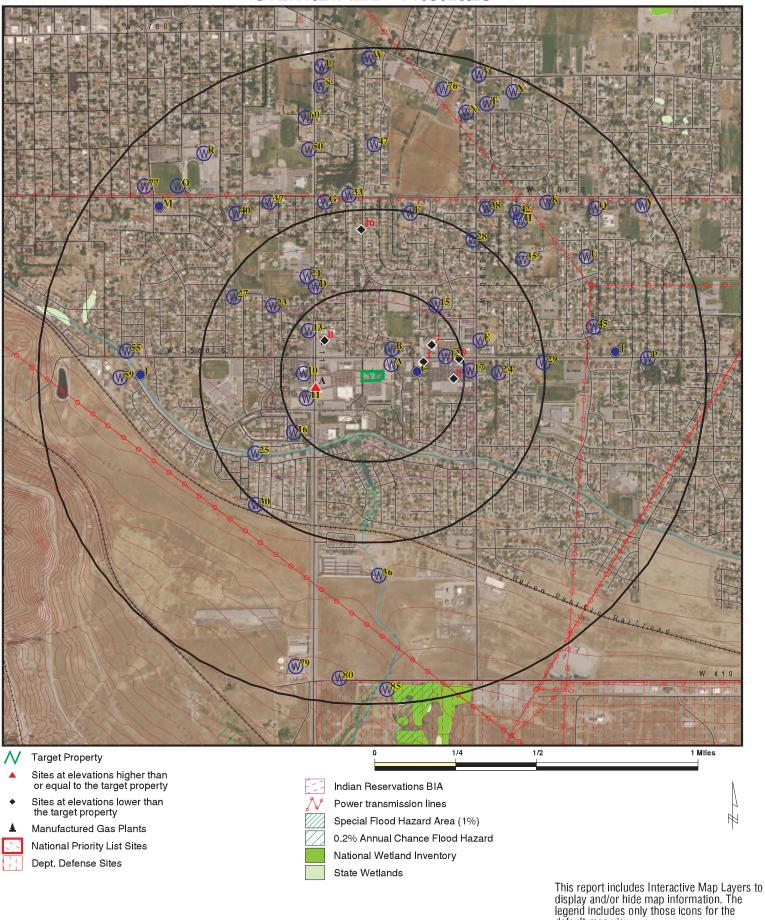
MAPPED SITES SUMMARY

Target Property Address: 8275 WEST 3500 SOUTH MAGNA, UT 84044

Click on Map ID to see full detail.

| MAP | | | | RELATIVE | DIST (ft. & mi.) |
|-----|----------------------|----------------------|--------------------------|------------------|--------------------|
| ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | ELEVATION | DIRECTION ' |
| Reg | NAVPMOSSP MAGNA UTAH | | DOD | Same | 4895, 0.927, South |
| 1 | TESORO #62085 | 8145 W 3500 S | LUST, UST | Lower | 676, 0.128, ENE |
| A2 | WALMART NEIGHBORHOOD | 3555 SOUTH 8400 WEST | RCRA-VSQG, FINDS, ECHO | Higher | 756, 0.143, West |
| B3 | 4 WAY SERVICE | 3495 S 8400 W | UST | Lower | 783, 0.148, WNW |
| B4 | CHEVRON #76670 | 3461 S 8400 W | UST | Lower | 791, 0.150, NW |
| B5 | CHEVRON USA-CHEVRON | 3461 SOUTH 8400 NORT | RCRA NonGen / NLR | Lower | 791, 0.150, NW |
| A6 | HOLIDAY # 44 | 3580 S 8400 W | UST | Higher | 855, 0.162, WSW |
| 7 | ERNEST GUST (ERNIES | 8120 W 3500 S | UST | Lower | 900, 0.170, ENE |
| 8 | SMITHS #65 | 8055 W 3500 S | UST, Financial Assurance | Lower | 1151, 0.218, East |
| 9 | SALLY BEAUTY SUPPLY | 8043 WEST 3500 SOUTH | RCRA-VSQG | Lower | 1255, 0.238, ENE |
| 10 | MAGNA RESIDENTIAL ME | 3190 BREEZE DR. | SEMS | Lower | 2318, 0.439, North |

OVERVIEW MAP - 7189623.2S



display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Magna Head Start
ADDRESS: 8275 West 3500 South
Magna UT 84044
LAT/LONG: 40.695671 / 112.088392

CLIENT: CONTACT: Terracon Kelly Shaw INQUIRY#: 7189623.2s

DATE: November 29, 2022 9:05 am

DETAIL MAP - 7189623.2S



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

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

Magna Head Start 8275 West 3500 South Magna UT 84044 40.695671 / 112.088392 SITE NAME: ADDRESS: LAT/LONG:

Terracon Kelly Shaw CLIENT: CONTACT: INQUIRY#: 7189623.2s

DATE: November 29, 2022 9:07 am

Copyright © 2022 EDR, Inc. © 2015 TomTom Rel. 2015.

| 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 | | | | | | | | | | |
| Lists of Federal NPL (Su | perfund) site: | s | | | | | | | | |
| NPL Proposed NPL NPL LIENS | 1.000 1.000 1.000 | | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | NR NR NR | 0 0 0 | | |
| Lists of Federal Delisted | NPL sites | | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 | | |
| Lists of Federal sites sur CERCLA removals and C | | rs | | | | | | | | |
| FEDERAL FACILITY SEMS | 0.500 0.500 | | 0 0 | 0 0 | 0 1 | NR NR | NR NR | 0 1 | | |
| Lists of Federal CERCLA | A sites with N | FRAP | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | | |
| Lists of Federal RCRA facilities undergoing Corrective Action | | | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 | | |
| Lists of Federal RCRA T | SD facilities | | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | | |
| Lists of Federal RCRA g | enerators | | | | | | | | | |
| RCRA-LQG RCRA-SQG RCRA-VSQG | 0.250 0.250 0.250 | | 0 0 0 | 0 0 2 | NR NR NR | NR NR NR | NR NR NR | 0 0 2 | | |
| Federal institutional con engineering controls reg | | | | | | | | | | |
| LUCIS US ENG CONTROLS US INST CONTROLS | 0.500 0.500 0.500 | | 0 0 0 | 0 0 0 | 0 0 0 | NR NR NR | NR NR NR | 0 0 0 | | |
| Federal ERNS list | | | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 | | |
| Lists of state- and tribal hazardous waste facilities | es | | | | | | | | | |
| SHWS | N/A | | N/A | N/A | N/A | N/A | N/A | N/A | | |
| Lists of state and tribal l and solid waste disposa | | | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | | |
| Lists of state and tribal l | eaking storag | ge tanks | | | | | | | | |
| LUST | 0.500 | | 0 | 1 | 0 | NR | NR | 1 | | |

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted | |
|---|----------------------------------|--------------------|------------------|----------------|----------------------|----------------------|----------------------|------------------|--|
| LAST INDIAN LUST | 0.500 0.500 | | 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 | |
| Lists of state and tribal r | registered sto | rage tanks | | | | | | | |
| FEMA UST UST AST INDIAN UST | 0.250 0.250 0.250 0.250 | | 0 0 0 0 | 0 6 0 | NR NR NR NR | NR NR NR NR | NR NR NR NR | 0 6 0 | |
| State and tribal institutional control / engineering control registries | | | | | | | | | |
| INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | |
| Lists of state and tribal v | oluntary clea | anup sites | | | | | | | |
| INDIAN VCP VCP | 0.500 0.500 | | 0 0 | 0 0 | 0 0 | NR NR | NR NR | 0 0 | |
| Lists of state and tribal k | prownfield sit | es | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | |
| ADDITIONAL ENVIRONMEN | ITAL RECORDS | <u>s</u> | | | | | | | |
| Local Brownfield lists | | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | |
| Local Lists of Landfill / S Waste Disposal Sites | Solid | | | | | | | | |
| INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS | 0.500 0.500 0.500 0.500 | | 0 0 0 0 | 0 0 0 | 0 0 0 | NR NR NR NR | NR NR NR NR | 0 0 0 | |
| Local Lists of Hazardous Contaminated Sites | s waste / | | | | | | | | |
| US HIST CDL CDL US CDL | TP TP TP | | NR NR NR | NR NR NR | NR NR NR | NR NR NR | NR NR NR | 0 0 0 | |
| Local Land Records | | | | | | | | | |
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 | |
| Records of Emergency F | Release Repo | rts | | | | | | | |
| HMIRS SPILLS SPILLS 90 | TP TP TP | | NR NR NR | NR NR NR | NR NR NR | NR NR NR | NR NR NR | 0 0 0 | |
| Other Ascertainable Rec | ords | | | | | | | | |
| RCRA NonGen / NLR FUDS DOD | 0.250 1.000 1.000 | | 0 0 0 | 1 0 0 | NR 0 0 | NR 0 1 | NR NR NR | 1 0 1 | |

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|-------------------------------|--------------------|----------|-----------|-----------|----------|----------|------------------|
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | TP | | NR | NR | NŘ | NR | NR | 0 |
| EPA WATCH LIST | TP | | NR | NR | NR | NR | NR | Ö |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | Ö |
| TSCA | TP | | NR | NR | NR | NR | NR | 0 |
| TRIS | TP | | NR | NR | NR | NR | NR | 0 |
| SSTS | TP | | NR | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | TP | | NR | NR | NR | NR | NR | 0 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| PRP | TP | | NR | NR | NR | NR | NR | 0 |
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| ICIS | TP | | NR | NR | NR | NR | NR | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP TP | | NR NR | NR NR | NR NR | NR NR | NR NR | 0 0 |
| DOT OPS | TP | | NR | NR | NR NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | Ö | ő | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | Ö | Ö | NR | NR | 0 |
| LEAD SMELTERS | TP | | NR | NR | NŘ | NR | NR | 0 |
| US AIRS | TP | | NR | NR | NR | NR | NR | Ö |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | Ö |
| ABANDONED MINES | 0.250 | | Ö | Ō | NR | NR | NR | Ö |
| FINDS | TP | | NR | NR | NR | NR | NR | 0 |
| DOCKET HWC | TP | | NR | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ECHO | TP | | NR | NR | NR | NR | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS NPL | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS FEDERAL SITES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS TSCA | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS RCRA MANIFEST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ATSDR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS WQP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS NPDES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ECHO | 0.250 | | 0 | 0 | NR NR | NR | NR | 0 |
| PFAS ECHO FIRE TRAINII PFAS PART 139 AIRPORT | | | 0 0 | 0 0 | NR NR | NR NR | NR NR | 0 0 |
| AQUEOUS FOAM NRC | 0.250 | | 0 | 0 | NR NR | NR | NR | 0 |
| PFAS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| EMI | 0.250 TP | | NR | NR | NR NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| EWA | 0.230 TP | | NR | NR | NR | NR | NR | 0 |
| Financial Assurance | TP | | NR | NR | NR | NR | NR | 0 |
| FUDS | TP | | NR | NR | NR | NR | NR | 0 |
| : - - - | • • | | | | | | | • |

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted | |
|------------------------------------|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|--|
| MMRP | TP | | NR | NR | NR | NR | NR | 0 | |
| NPDES | TP | | NR | NR | NR | NR | NR | 0 | |
| TIER 2 | TP | | NR | NR | NR | NR | NR | 0 | |
| UIC | TP | | NR | NR | NR | NR | NR | 0 | |
| UOPF | TP | | NR | NR | NR | NR | NR | 0 | |
| MINES MRDS | TP | | NR | NR | NR | NR | NR | 0 | |
| EDR HIGH RISK HISTORICAL RECORDS | | | | | | | | | |
| EDR Exclusive Records | | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 | |
| EDR Hist Auto | 0.125 | | 0 | NR | NR | NR | NR | 0 | |
| EDR Hist Cleaner | 0.125 | | 0 | NR | NR | NR | NR | 0 | |
| EDR RECOVERED GOVERNMENT ARCHIVES | | | | | | | | | |
| Exclusive Recovered Govt. Archives | | | | | | | | | |
| RGA LF | TP | | NR | NR | NR | NR | NR | 0 | |
| RGA LUST | TP | | NR | NR | NR | NR | NR | 0 | |
| - Totals | | 0 | 0 | 10 | 1 | 1 | 0 | 12 | |

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.

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

DOD NAVPMOSSP MAGNA UTAH DOD CUSA400451
Region N/A

Region South

outh , UT

1/2-1 4895 ft.

DOD:

MAGNA, UT 84044

Site Name: NAVPMOSSP MAGNA UTAH

DOD Component: Navy Active

Joint Base: N/A

Operating Status: ACT (Active): Site has an on-going operational/support mission (s).

1 TESORO #62085 LUST U003149518 ENE 8145 W 3500 S UST N/A

1/8-1/4 0.128 mi. 676 ft.

Actual:

4406 ft.

o/b II. Relative: |

Relative: LUST: Lower Name:

Address: 8145 W 3500 S City,State,Zip: MAGNA, UT 84044

 Facility ID:
 4000759

 Release Id:
 HKW

 Closed Date:
 08/10/1995

 Notification Date:
 03/17/1992

Owner Name: TESORO REFINING and MARKETING COMPANY LLC

Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

TESORO #62085

Owner City: SAN ANTONIO

Owner State: TX
Owner Zip: 78259

Owner City,St,Zip: SAN ANTONIO, TX 78259

Project Manager: [Pete Stewart]

 Name:
 TESORO #62085

 Address:
 8145 W 3500 S

 City,State,Zip:
 MAGNA, UT 84044

 Facility ID:
 4000759

 Release Id:
 KYX

 Closed Date:
 09/14/1999

 Notification Date:
 05/25/1999

Owner Name: TESORO REFINING and MARKETING COMPANY LLC
Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City: SAN ANTONIO

Owner State: TX
Owner Zip: 78259

Owner City,St,Zip: SAN ANTONIO, TX 78259

Project Manager: [Kimberly Shelley]

 Name:
 TESORO #62085

 Address:
 8145 W 3500 S

 City,State,Zip:
 MAGNA, UT 84044

 Facility ID:
 4000759

 Release Id:
 MOU

 Closed Date:
 05/19/2011

 Notification Date:
 10/21/2009

Owner Name: TESORO REFINING and MARKETING COMPANY LLC

Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City: SAN ANTONIO

Owner State: TX

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TESORO #62085 (Continued)

U003149518

Owner Zip: 78259

SAN ANTONIO, TX 78259 Owner City, St, Zip:

Project Manager: [Robin Davis]

TESORO #62085 Name: Address: 8145 W 3500 S MAGNA, UT 84044 City, State, Zip:

Facility ID: 4000759 Release Id: NAT **Closed Date:** 06/11/2013 Notification Date: 05/28/2013

TESORO REFINING and MARKETING COMPANY LLC Owner Name:

19100 RIDGEWOOD PARKWAY, MS:TX1-022 Owner Address:

Owner City: SAN ANTONIO

Owner State: 78259 Owner Zip:

Owner City, St, Zip: SAN ANTONIO, TX 78259

Project Manager: UST

UST:

Facility ID: 3572 Tank ID: Above Tank: No Alternate Tank ID: Federal Regulated: Yes

TESORO REFINING and MARKETING COMPANY LLC Owner Name:

Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City, State, Zip: SAN ANTONIO, TX 78259

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 10000 Substance Detected: Gasoline Substance Tested: Premium

Tank Material: Galvanic Cathodic Protection (STIP3)

Tank Mod:

Fiberglass Reinforced Plastic Pipe Material:

Pipe Mod: None

1985-03-14 00:00:00 Install Date: 2013-04-30 00:00:00 Closed Date: Closure Status: Tank removed from ground

Complaint: Yes PST Fund: Yes

Facility:

Name: TESORO #62085 Address: 8145 W 3500 S City, State, Zip: **MAGNA, UT 84044**

Facility ID: 3572 Northing: 4505598 Easting: 408262

Facility ID: 3572 Tank ID: 2 Above Tank: No Alternate Tank ID: 2

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TESORO #62085 (Continued)

U003149518

Federal Regulated: Yes

TESORO REFINING and MARKETING COMPANY LLC Owner Name: Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City, State, Zip: SAN ANTONIO, TX 78259

REG AST: No Tank Emergency: No

Permanently Out of Use Tank Status:

Tank Capacity: 10000 Substance Detected: Diesel

Tank Material: Galvanic Cathodic Protection (STIP3)

Tank Mod: None

Pipe Material: Fiberglass Reinforced Plastic

Pipe Mod: None

Install Date: 1985-03-14 00:00:00 2013-04-30 00:00:00 Closed Date: Closure Status: Tank removed from ground

Complaint: Yes PST Fund: Yes

Facility:

TESORO #62085 Name: Address: 8145 W 3500 S City, State, Zip: **MAGNA, UT 84044**

Facility ID: 3572 4505598 Northing: Easting: 408262

Facility ID: 3572 Tank ID: 3 Above Tank: No Alternate Tank ID: 3 Federal Regulated: Yes

TESORO REFINING and MARKETING COMPANY LLC Owner Name:

Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City, State, Zip: SAN ANTONIO, TX 78259

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

10000 Tank Capacity: Substance Detected: Gasoline Substance Tested: Regular

Tank Material: Galvanic Cathodic Protection (STIP3)

Tank Mod: None

Pipe Material: Fiberglass Reinforced Plastic

Pipe Mod: None

1985-03-14 00:00:00 Install Date: Closed Date: 2013-04-30 00:00:00 Tank removed from ground Closure Status:

Complaint: Yes PST Fund: Yes

Facility:

TESORO #62085 Name: 8145 W 3500 S Address: City, State, Zip: **MAGNA, UT 84044**

Facility ID: 3572 Northing: 4505598

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TESORO #62085 (Continued)

U003149518

Easting: 408262

Facility ID: 3572 Tank ID: Above Tank: No Alternate Tank ID: 4 Federal Regulated: Yes

Owner Name: TESORO REFINING and MARKETING COMPANY LLC Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City, State, Zip: SAN ANTONIO, TX 78259

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 15000 Substance Detected: Gasoline Substance Tested: Regular

Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled

Pipe Material: Fiberglass Reinforced Plastic

Pipe Mod: Double-Walled Install Date: 2013-05-17 00:00:00 Closed Date: 2019-10-31 00:00:00 Closure Status: Tank removed from ground

Complaint: Yes PST Fund: Yes

Facility:

Name: TESORO #62085 Address: 8145 W 3500 S City,State,Zip: **MAGNA, UT 84044**

Facility ID: 3572 Northing: 4505598 408262 Easting:

Facility ID: 3572 Tank ID: 5 Above Tank: No Federal Regulated: Yes

Owner Name: TESORO REFINING and MARKETING COMPANY LLC Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City, State, Zip: SAN ANTONIO, TX 78259

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 8000 Substance Detected: Gasoline Premium Substance Tested:

Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled

Pipe Material: Fiberglass Reinforced Plastic

Pipe Mod: Double-Walled Install Date: 2013-05-17 00:00:00 Closed Date: 2019-10-31 00:00:00 Closure Status: Tank removed from ground

Complaint: Yes PST Fund: Yes

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

TESORO #62085 (Continued)

U003149518

Facility:

TESORO #62085 Name: Address: 8145 W 3500 S City,State,Zip: **MAGNA, UT 84044**

Facility ID: 3572 4505598 Northing: 408262 Easting:

Facility ID: 3572 Tank ID: 6 Above Tank: No Federal Regulated: Yes

TESORO REFINING and MARKETING COMPANY LLC Owner Name: Owner Address: 19100 RIDGEWOOD PARKWAY, MS:TX1-022

Owner City, State, Zip: SAN ANTONIO, TX 78259

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 7000 Substance Detected: Diesel

Diesel #2 (U.L.S.) Substance Tested:

Tank Material: Fiberglass Reinforced Plastic

Double-Walled Tank Mod:

Pipe Material: Fiberglass Reinforced Plastic

Pipe Mod: Double-Walled 2013-05-17 00:00:00 Install Date: Closed Date: 2019-10-31 00:00:00 Closure Status: Tank removed from ground

Complaint: Yes PST Fund: Yes

Facility:

Name: TESORO #62085 8145 W 3500 S Address: MAGNA, UT 84044 City,State,Zip:

Facility ID: 3572 Northing: 4505598 Easting: 408262

WALMART NEIGHBORHOOD MARKET #4706

RCRA-VSQG 1016678938

FINDS UTR000013011

ECHO

1/8-1/4 0.143 mi.

A2

West

756 ft. Site 1 of 2 in cluster A

3555 SOUTH 8400 WEST

MAGNA, UT 84044

Relative: RCRA Listings:

Higher Date Form Received by Agency: 20201210 Handler Name: WALMART NEIGHBORHOOD MARKET #4706 Actual:

Handler Address: 3555 SOUTH 8400 WEST 4426 ft.

Handler City, State, Zip: **MAGNA, UT 84044** FPA ID: UTR000013011 Contact Name: ROSE ARNOLD Contact Address: P.O. BOX 8041

BENTONVILLE, AR 72712-8041 Contact City, State, Zip:

Contact Telephone: 479-277-8972 Contact Fax: 479-204-9675

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

Contact Email: ROSE.ARNOLD@WALMART.COM

SENIOR MANAGER Contact Title:

EPA Region: റമ Land Type: Private

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Active Site Indicator: Handler Activities Mailing Address: P.O. BOX 8041

Mailing City, State, Zip: BENTONVILLE, AR 72712-8041

Owner Name: WALMART INC.

Owner Type: Private

Operator Name: WALMART INC. Operator Type: Private

Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No Transporter Activity: No Transfer Facility Activity: Nο Recycler Activity with Storage: No Small Quantity On-Site Burner Exemption: No Smelting Melting and Refining Furnace Exemption: No Underground Injection Control: No Off-Site Waste Receipt: No Universal Waste Indicator: No

Universal Waste Destination Facility: No Federal Universal Waste: No Active Site State-Reg Handler: ---Hazardous Secondary Material Indicator: Ν

Commercial TSD Indicator: 2018 GPRA Permit Baseline: Not on the Baseline

2018 GPRA Renewals Baseline: Not on the Baseline

202 GPRA Corrective Action Baseline: Nο Corrective Action Workload Universe: No Subject to Corrective Action Universe: No Non-TSDFs Where RCRA CA has Been Imposed Universe: No TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No TSDFs Only Subject to CA under Discretionary Auth Universe: No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator: No Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A Significant Non-Complier Universe: No Unaddressed Significant Non-Complier Universe: No Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No 20210107 Handler Date of Last Change:

Recognized Trader-Importer: Nο Recognized Trader-Exporter: No Importer of Spent Lead Acid Batteries: No Exporter of Spent Lead Acid Batteries: Nο Recycler Activity Without Storage: No Manifest Broker: No Sub-Part P Indicator: Н

Hazardous Waste Summary:

Waste Code: D001

Distance Elevation

ation Site Database(s) EPA ID Number

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

EDR ID Number

Waste Description: IGNITABLE WASTE

Waste Code: D002

Waste Description: CORROSIVE WASTE

Waste Code: D003

Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005 Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007

Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D013

Waste Description: LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)

Waste Code: D016

Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D022

Waste Description: CHLOROFORM

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D025
Waste Description: P-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D027

Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D030

Direction Distance

Elevation Site Database(s) EPA ID Number

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

EDR ID Number

Waste Description: 2,4-DINITROTOLUENE

Waste Code: D035

Waste Description: METHYL ETHYL KETONE

Waste Code: D039

Waste Description: TETRACHLOROETHYLENE

Waste Code: D040

Waste Description: TRICHLORETHYLENE

Waste Code: D043

Waste Description: VINYL CHLORIDE

Waste Code: P001

Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS,

WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, &

SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P075

Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, &

SALTS

Waste Code: U002

Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U034

Waste Description: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

Waste Code: U035

Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste Code: U058

Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-,

2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U072

Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U089

Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS,

(E)-

Waste Code: U122

Waste Description: FORMALDEHYDE

Waste Code: U129

Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA,

5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U132

Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U134

Waste Description: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

Waste Code: U150

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: 11154

Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code:

Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U165

Waste Description: **NAPHTHALENE**

Waste Code: U188 Waste Description: **PHENOL**

Waste Code: U200

Waste Description: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID,

11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER,

(3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste Code: U205

Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste Code:

Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste Code: U249

Waste Description: ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS OF 10% OR LESS

Waste Code: U279 Waste Description: U279

Waste Code:

Waste Description: CARBAMIC ACID, [1,2-PHENYLENEBIS (IMINOCARBONOTHIOYL)]BIS-, DIMETHYL

ESTER (OR) THIOPHANATE-METHYL

Waste Code: 11411 U411 Waste Description:

Handler - Owner Operator:

Owner/Operator Indicator: Operator Owner/Operator Name: WALMART NEIGHBORHOOD MARKET Legal Status: Private Date Became Current: 20140509

Owner/Operator Address: 3555 SOUTH 8400 WEST Owner/Operator City, State, Zip: **MAGNA, UT 84044** Owner/Operator Telephone: 479-204-3517

Owner/Operator Indicator: Operator

Owner/Operator Name: WALMART INC.

Legal Status: Private Date Became Current: 20140618 Owner/Operator Address: P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone: 479-277-8972 Owner/Operator Fax: 479-204-9675

Owner/Operator Email: ROSE.ARNOLD@WALMART.COM

Distance Elevation

ation Site Database(s) EPA ID Number

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

EDR ID Number

Owner/Operator Indicator: Operator

Owner/Operator Name: WALMART INC.

Legal Status:PrivateDate Became Current:20140618Owner/Operator Address:P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

 Owner/Operator Telephone:
 479-277-8972

 Owner/Operator Fax:
 479-204-9675

Owner/Operator Email: ROSE.ARNOLD@WALMART.COM

Owner/Operator Indicator: Owner

Owner/Operator Name: WALMART INC.

Legal Status:PrivateDate Became Current:20140618Owner/Operator Address:P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone: 479-277-8972 Owner/Operator Fax: 479-204-9675

Owner/Operator Email: ROSE.ARNOLD@WALMART.COM

Owner/Operator Indicator: Owner

Owner/Operator Name: WAL-MART STORES, INC.

Legal Status:PrivateDate Became Current:20140509Owner/Operator Address:P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712

Owner/Operator Telephone: 479-204-3517

Owner/Operator Indicator: Operator

Owner/Operator Name: WAL-MART STORES, INC.

Legal Status: Private

Date Became Current: 20140618

Owner/Operator Address: P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone: 479-277-8972

Owner/Operator Indicator: Operator

Owner/Operator Name: WALMART INC.

Legal Status: Private
Date Became Current: 20140618
Owner/Operator Address: P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone:479-277-8972Owner/Operator Fax:479-204-9675

Owner/Operator Email: ROSE.ARNOLD@WALMART.COM

Owner/Operator Indicator: Owner

Owner/Operator Name: WAL-MART STORES, INC.

Legal Status:PrivateDate Became Current:20140618Owner/Operator Address:P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone: 479-277-8972

Owner/Operator Indicator: Owner

Owner/Operator Name: WALMART INC.

Legal Status: Private

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

Date Became Current: 20140618 P.O. BOX 8041 Owner/Operator Address:

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone: 479-277-8972 Owner/Operator Fax: 479-204-9675

Owner/Operator Email: ROSE.ARNOLD@WALMART.COM

Owner/Operator Indicator: Owner

Owner/Operator Name: WALMART INC.

Legal Status: Private Date Became Current: 20140618 Owner/Operator Address: P.O. BOX 8041

Owner/Operator City, State, Zip: BENTONVILLE, AR 72712-8041

Owner/Operator Telephone: 479-277-8972 Owner/Operator Fax: 479-204-9675

Owner/Operator Email: ROSE.ARNOLD@WALMART.COM

Historic Generators:

Receive Date: 20140502 WALMART NEIGHBORHOOD MARKET #4706 Handler Name:

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Large Quantity Handler of Universal Waste: Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: Nο Current Record: No

Receive Date: 20160803 WALMART NEIGHBORHOOD MARKET #4706 Handler Name:

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Large Quantity Handler of Universal Waste: Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: No

Receive Date: 20181228 WALMART NEIGHBORHOOD MARKET #4706 Handler Name:

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Large Quantity Handler of Universal Waste: Nο Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: Nο Spent Lead Acid Battery Exporter: No Current Record: No Non Storage Recycler Activity: No Electronic Manifest Broker: No

Receive Date: 20200922 Handler Name: WALMART NEIGHBORHOOD MARKET #4706

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WALMART NEIGHBORHOOD MARKET #4706 (Continued)

1016678938

Spent Lead Acid Battery Exporter: No Current Record: No Non Storage Recycler Activity: No Electronic Manifest Broker: No

Receive Date: 20201210 Handler Name: WALMART NEIGHBORHOOD MARKET #4706

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Large Quantity Handler of Universal Waste: Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: Yes Non Storage Recycler Activity: No Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code:

NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

NAICS Code: 452910

NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

No Evaluations Found Evaluations:

FINDS:

110059776292 Registry ID:

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016678938 Registry ID: 110059776292

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110059776292

WALMART NEIGHBORHOOD MARKET #4706 Name:

Address: 3555 SOUTH 8400 WEST City,State,Zip: **MAGNA, UT 84044**

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

B3 4 WAY SERVICE UST U003149511 WNW 3495 S 8400 W N/A

1/8-1/4 MAGNA, UT 84044

0.148 mi.

783 ft. Site 1 of 3 in cluster B

Relative: UST:

 Lower
 Facility ID:
 4595

 Actual:
 Tank ID:
 1

 4405 ft.
 Above Tank:
 No

 Alternate Tank ID:
 1

 Federal Regulated:
 Yes

 Owner Name:
 4 WAY SERVICE

 Owner Address:
 8400 W 3500 S

 Owner City,State,Zip:
 MAGNA, UT 84044

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 500
Substance Detected: Used Oil
Tank Material: Unknown
Tank Mod: None
Pipe Material: Unknown
Pipe Mod: None

 Install Date:
 1967-01-01 00:00:00

 Closed Date:
 1992-04-08 00:00:00

 Closure Status:
 Tank Removed from Ground

Complaint: No PST Fund: No

Facility:

 Name:
 4 WAY SERVICE

 Address:
 3495 S 8400 W

 City,State,Zip:
 MAGNA, UT 84044

Facility ID: 4595
Northing: 4505682.34
Easting: 407772.97

B4 CHEVRON #76670 UST U003149503 NW 3461 S 8400 W N/A

NW 3461 S 8400 W 1/8-1/4 MAGNA, UT 84044

0.150 mi.

791 ft. Site 2 of 3 in cluster B

Relative: UST:

 Lower
 Facility ID:
 3091

 Actual:
 Tank ID:
 1

 4402 ft.
 Above Tank:
 No

 Alternate Tank ID:
 1

 Federal Regulated:
 Yes

Owner Name: CHEVRON USA INC

Owner Address: 6001 BOLLINGER CANYON RD #L4072

Owner City, State, Zip: SAN RAMON, CA 94583

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 6000 Substance Detected: Gasoline

Tank Material: Asphalt Coated or Bare Steel

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON #76670 (Continued)

U003149503

Tank Mod: None

Pipe Material: Galvanized Steel Pipe Mod: Cathodically Protected Install Date: 1963-09-23 00:00:00 Closed Date: 1987-09-19 00:00:00 Closure Status: Tank Removed from Ground

Complaint: No PST Fund: No

Facility:

Name: CHEVRON #76670 Address: 3461 S 8400 W City, State, Zip: **MAGNA, UT 84044**

Facility ID: 3091 Northing: 4505717.7 Easting: 407809.92

Facility ID: 3091 Tank ID: 2 Above Tank: No Alternate Tank ID: 2 Federal Regulated: Yes

Owner Name: CHEVRON USA INC

6001 BOLLINGER CANYON RD #L4072 Owner Address:

Owner City,State,Zip: SAN RAMON, CA 94583

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 8000 Substance Detected: Gasoline

Tank Material: Asphalt Coated or Bare Steel

Tank Mod: None

Pipe Material: Galvanized Steel Cathodically Protected Pipe Mod: Install Date: 1963-09-23 00:00:00 Closed Date: 1987-09-19 00:00:00 Closure Status: Tank Removed from Ground

Complaint: No PST Fund: No

Facility:

Name: CHEVRON #76670 Address: 3461 S 8400 W City,State,Zip: MAGNA, UT 84044

Facility ID: 3091 Northing: 4505717.7 Easting: 407809.92

Facility ID: 3091 Tank ID: 3 Above Tank: No Alternate Tank ID: 3 Federal Regulated: Yes

Owner Name: CHEVRON USA INC

Owner Address: 6001 BOLLINGER CANYON RD #L4072

Owner City, State, Zip: SAN RAMON, CA 94583

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON #76670 (Continued)

U003149503

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 8000 Substance Detected: Gasoline

Tank Material: Asphalt Coated or Bare Steel

Tank Mod: None

Pipe Material: Galvanized Steel Pipe Mod: Cathodically Protected Install Date: 1963-09-23 00:00:00 Closed Date: 1987-09-19 00:00:00 Closure Status: Tank Removed from Ground

Complaint: No PST Fund: No

Facility:

CHEVRON #76670 Name: 3461 S 8400 W Address: City,State,Zip: **MAGNA, UT 84044**

Facility ID: 3091 4505717.7 Northing: 407809.92 Easting:

Facility ID: 3091 Tank ID: Above Tank: No Alternate Tank ID: Federal Regulated: Yes

CHEVRON USA INC Owner Name:

6001 BOLLINGER CANYON RD #L4072 Owner Address:

Owner City, State, Zip: SAN RAMON, CA 94583

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 500 Used Oil Substance Detected:

Tank Material: Asphalt Coated or Bare Steel

Tank Mod: None

Pipe Material: Galvanized Steel Pipe Mod: Cathodically Protected Install Date: 1963-09-23 00:00:00 Closed Date: 1987-09-19 00:00:00 Closure Status: Tank Removed from Ground

Complaint: No PST Fund: No

Facility:

CHEVRON #76670 Name: Address: 3461 S 8400 W City,State,Zip: **MAGNA, UT 84044**

Facility ID: 3091 Northing: 4505717.7 407809.92 Easting:

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

B5 CHEVRON USA-CHEVRON STATION STE #7-6670 RCRA NonGen / NLR 1010336047 UTD981551674

NW 3461 SOUTH 8400 NORTH 1/8-1/4 **MAGNA, UT 84044**

0.150 mi.

791 ft. Site 3 of 3 in cluster B

Relative: RCRA Listings:

Lower Date Form Received by Agency: 20070222

Handler Name: CHEVRON USA-CHEVRON STATION STE #7-6670 Actual: Handler Address: 3461 SOUTH 8400 NORTH 4402 ft.

Handler City, State, Zip: MAGNA, UT 84044 EPA ID: UTD981551674 Contact Name: **KELLI MATHIA**

Contact Address: 2 ANNABEL LANE STE #200 Contact City, State, Zip: SAN RAMON, CA 94583

Contact Telephone: 415-838-5331

EPA Region:

Federal Waste Generator Description: Not a generator, verified ANNABEL LANE STE #200 Mailing Address: Mailing City, State, Zip: SAN RAMON, CA 94583

Owner Name: CHEVRON USA INC

Private Owner Type: Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No Transporter Activity: No Transfer Facility Activity: No Recycler Activity with Storage: Nο Small Quantity On-Site Burner Exemption: Nο Smelting Melting and Refining Furnace Exemption: No Underground Injection Control: No Off-Site Waste Receipt: No Universal Waste Indicator: Nο Universal Waste Destination Facility: No Federal Universal Waste: No Active Site State-Reg Handler: Hazardous Secondary Material Indicator: NN Commercial TSD Indicator: Nο

2018 GPRA Permit Baseline: Not on the Baseline 2018 GPRA Renewals Baseline: Not on the Baseline

202 GPRA Corrective Action Baseline: No Corrective Action Workload Universe: No Subject to Corrective Action Universe: No Non-TSDFs Where RCRA CA has Been Imposed Universe: No TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No TSDFs Only Subject to CA under Discretionary Auth Universe: No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator: No Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A Significant Non-Complier Universe: Nο Unaddressed Significant Non-Complier Universe: No Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No Handler Date of Last Change: 20140916

Recognized Trader-Importer: No Recognized Trader-Exporter: No Importer of Spent Lead Acid Batteries: No

MAP FINDINGS Map ID Direction

Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CHEVRON USA-CHEVRON STATION STE #7-6670 (Continued)

1010336047

Exporter of Spent Lead Acid Batteries: No Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner

Owner/Operator Name: CHEVRON USA INC

Legal Status: Private

Owner/Operator Address: DATA NOT REQUESTED

Owner/Operator City, State, Zip: DATA NOT REQUESTED, UT 99999

Owner/Operator Telephone: 999-999-9999

Owner/Operator Indicator: Owner

Owner/Operator Name: CHEVRON USA INC

Legal Status: Private

Owner/Operator Address: DATA NOT REQUESTED

Owner/Operator City, State, Zip: DATA NOT REQUESTED, UT 99999

Owner/Operator Telephone: 999-999-9999

Historic Generators:

Receive Date: 20070222

Handler Name: CHEVRON USA-CHEVRON STATION STE #7-6670 Federal Waste Generator Description: Not a generator, verified

Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No

Spent Lead Acid Battery Exporter: No Current Record: Yes

Receive Date: 19870730

Handler Name: CHEVRON USA-CHEVRON STATION STE #7-6670 Federal Waste Generator Description: Not a generator, verified

Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: No

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Direction Distance

Elevation Site Database(s) EPA ID Number

A6 HOLIDAY # 44 UST U004257336 WSW 3580 S 8400 W N/A

1/8-1/4 MAGNA, UT 84044

0.162 mi.

855 ft. Site 2 of 2 in cluster A

Relative: UST:

 Higher
 Facility ID:
 7905

 Actual:
 Tank ID:
 4

 4429 ft.
 Above Tank:
 No

 Federal Regulated:
 Yes

Owner Name: HOLIDAY OIL COMPANY

Owner Address: 3115 W 2100 S

Owner City, State, Zip: SALT LAKE CITY, UT 84119

REG AST: No Tank Emergency: No

Tank Status: Currently In Use

Tank Capacity: 15000 Substance Detected: Diesel

Substance Tested: Diesel #2 (U.L.S.)

Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled
Pipe Material: Flexible Plastic
Pipe Mod: Double-Walled
Install Date: 2016-10-06 00:00:00

Complaint: Yes
PST Fund: No
Other Type: Insurance

Facility:

 Name:
 HOLIDAY # 44

 Address:
 3580 S 8400 W

 City,State,Zip:
 MAGNA, UT 84044

 Facility ID:
 7905

 Northing:
 4505398

 Easting:
 407721

Facility ID: 7905
Tank ID: 1
Above Tank: No
Federal Regulated: Yes

Owner Name: HOLIDAY OIL COMPANY

Owner Address: 3115 W 2100 S

Owner City, State, Zip: SALT LAKE CITY, UT 84119

REG AST: No Tank Emergency: No

Tank Status: Currently In Use

Tank Capacity: 20000 Substance Detected: Gasoline

Substance Tested: E10 (10% Ethanol, 90 % Gas)
Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled
Pipe Material: Flexible Plastic
Pipe Mod: Double-Walled
Install Date: 2016-10-06 00:00:00

Complaint: Yes
PST Fund: No
Other Type: Insurance

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

HOLIDAY # 44 (Continued) U004257336

Facility:

 Name:
 HOLIDAY # 44

 Address:
 3580 S 8400 W

 City,State,Zip:
 MAGNA, UT 84044

 Facility ID:
 7905

 Northing:
 4505398

 Easting:
 407721

Facility ID: 7905
Tank ID: 3
Above Tank: No
Federal Regulated: Yes

Owner Name: HOLIDAY OIL COMPANY

Owner Address: 3115 W 2100 S

Owner City, State, Zip: SALT LAKE CITY, UT 84119

REG AST: No Tank Emergency: No

Tank Status: Currently In Use

Tank Capacity: 15000 Substance Detected: Gasoline

Substance Tested: E10 (10% Ethanol, 90 % Gas)
Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled
Pipe Material: Flexible Plastic
Pipe Mod: Double-Walled
Install Date: 2016-10-06 00:00:00

Complaint: Yes
PST Fund: No
Other Type: Insurance

Facility:

 Name:
 HOLIDAY # 44

 Address:
 3580 S 8400 W

 City,State,Zip:
 MAGNA, UT 84044

 Facility ID:
 7905

 Northing:
 4505398

 Easting:
 407721

Facility ID: 7905
Tank ID: 2
Above Tank: No
Federal Regulated: Yes

Owner Name: HOLIDAY OIL COMPANY

Owner Address: 3115 W 2100 S

Owner City, State, Zip: SALT LAKE CITY, UT 84119

REG AST: No Tank Emergency: No

Tank Status: Currently In Use
Tank Capacity: 10000
Substance Detected: Gasoline
Substance Tested: Non-Ethanol

Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled Pipe Material: Flexible Plastic Pipe Mod: Double-Walled

EDR ID Number

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

HOLIDAY # 44 (Continued) U004257336

Install Date: 2016-10-06 00:00:00

Complaint: Yes
PST Fund: No
Other Type: Insurance

Facility:

 Name:
 HOLIDAY # 44

 Address:
 3580 S 8400 W

 City,State,Zip:
 MAGNA, UT 84044

Facility ID: 7905

Northing: 4505398

Easting: 407721

7 ERNEST GUST (ERNIES AUTOMOTIVE) UST U000813173 ENE 8120 W 3500 S N/A

1/8-1/4 MAGNA, UT 84044

0.170 mi. 900 ft.

Relative: UST:

 Lower
 Facility ID:
 3142

 Actual:
 Tank ID:
 1

 4397 ft.
 Above Tank:
 No

 Alternate Tank ID:
 1

 Federal Regulated:
 Yes

Owner Name: ERNEST GUST (ERNIES AUTOMOTIVE)

Owner Address: 8120 W 3500 S
Owner City, State, Zip: MAGNA, UT 84044

REG AST: No Tank Emergency: No

Tank Status: Permanently Out of Use

Tank Capacity: 1000
Substance Detected: Not Listed
Tank Material: Unknown
Tank Mod: None
Pipe Material: Unknown
Pipe Mod: None

 Install Date:
 1966-05-08 00:00:00

 Closed Date:
 1988-12-20 00:00:00

 Closure Status:
 Tank Removed from Ground

Complaint: No PST Fund: No

Facility:

Name: ERNEST GUST (ERNIES AUTOMOTIVE)

Address: 8120 W 3500 S City, State, Zip: MAGNA, UT 84044

Facility ID: 3142
Northing: 4505706.36
Easting: 408336.36

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

8 **SMITHS #65** UST U004199574 **East** 8055 W 3500 S **Financial Assurance** N/A

1/8-1/4 **MAGNA, UT 84044**

0.218 mi. 1151 ft.

UST: Relative:

Lower Facility ID: 7780 Tank ID: 2 Actual: Above Tank: No 4411 ft. Federal Regulated: Yes

> Owner Name: SMITH'S FOOD and DRUG CENTERS, INC.

> > Premium

PO BOX 305103 Owner Address: Owner City, State, Zip: NASHVILLE, TN 37230

REG AST: No Tank Emergency: No

Currently In Use Tank Status: 10000 Tank Capacity: Substance Detected: Gasoline Substance Tested:

Tank Material: Fiberglass Reinforced Plastic

Tank Mod: Double-Walled Pipe Material: Flexible Plastic Pipe Mod: Double-Walled Install Date: 2013-09-24 00:00:00

Complaint: Yes PST Fund: No Other Type: Insurance

Facility:

Name: SMITHS #65 Address: 8055 W 3500 S City,State,Zip: **MAGNA, UT 84044**

Facility ID: 7780 Northing: 4505580 408485 Easting:

Facility ID: 7780 Tank ID: 3 Above Tank: No Federal Regulated: Yes

Owner Name: SMITH'S FOOD and DRUG CENTERS, INC.

Owner Address: PO BOX 305103 Owner City, State, Zip: NASHVILLE, TN 37230

REG AST: No Tank Emergency: No

Tank Status: Currently In Use

Tank Capacity: 8000 Substance Detected: Diesel

Substance Tested: Diesel #2 (U.L.S.)

Fiberglass Reinforced Plastic Tank Material:

Double-Walled Tank Mod: Pipe Material: Flexible Plastic Pipe Mod: Double-Walled Install Date: 2013-09-24 00:00:00

Complaint: Yes PST Fund: No Other Type: Insurance

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SMITHS #65 (Continued) U004199574

Facility:

Name: SMITHS #65 Address: 8055 W 3500 S City,State,Zip: **MAGNA, UT 84044**

Facility ID: 7780 4505580 Northing: 408485 Easting:

Facility ID: 7780 Tank ID: Above Tank: No Alternate Tank ID: 1 Federal Regulated: Yes

Owner Name: SMITH'S FOOD and DRUG CENTERS, INC.

PO BOX 305103 Owner Address: Owner City, State, Zip: NASHVILLE, TN 37230

REG AST: No Tank Emergency: No

Currently In Use Tank Status:

Tank Capacity: 20000 Substance Detected: Gasoline Substance Tested: Regular

Tank Material: Fiberglass Reinforced Plastic

Double-Walled Tank Mod: Flexible Plastic Pipe Material: Pipe Mod: Double-Walled Install Date: 2013-09-24 00:00:00

Complaint: Yes PST Fund: No Other Type: Insurance

Facility:

Name: SMITHS #65 Address: 8055 W 3500 S City,State,Zip: MAGNA, UT 84044

Facility ID: 7780 Northing: 4505580 408485 Easting:

Financial Assurance 2:

Name: SMITHS #65 8055 W 3500 S Address: City,State,Zip: **MAGNA, UT 84044**

Facility ID: 4002491 Federal Regulated Tank: True Mechanism: Insurance

Direction

Distance

EDR ID Number

Elevation Site

Database(s) EPA ID Number

9 SALLY BEAUTY SUPPLY #2565 RCRA-VSQG 1026727645 ENE 8043 WEST 3500 SOUTH UTR000016436

1/8-1/4 MAGNA, UT 84044

0.238 mi. 1255 ft.

Relative: RCRA Listings:

Lower Date Form Received by Agency: 20201205

Actual: Handler Name: SALLY BEAUTY SUPPLY #2565

4400 ft. Handler Address: 8043 WEST 3500 SOUTH

Handler City,State,Zip:

EPA ID:

UTR000016436

Contact Name:

DEBBIE MIDDLETON

Contact Address:

COLORADO BLVD

Contact City,State,Zip:

DENTON, TX 76210

Contact Telephone:

940-297-4964

Contact Email: DMIDDLETON@SALLYBEAUTY.COM

Contact Title: ENVIRONMENTAL AND REGULATORY COMPLIANCE SPECI

EPA Region: 08
Land Type: Private

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

No

Active Site Indicator: Handler Activities

Mailing Address: GREY HAWK CT., SUITE 200
Mailing City,State,Zip: CARLSBAD, CA 92010

Owner Name: MAGNA KHOURY LLC

Owner Type: Private
Operator Name: SALLY BEAUTY SUPPLY LLC

Operator Type: Private Short-Term Generator Activity: Nο Importer Activity: No Mixed Waste Generator: No Transporter Activity: No Transfer Facility Activity: Nο Recycler Activity with Storage: No Small Quantity On-Site Burner Exemption: No Smelting Melting and Refining Furnace Exemption: No **Underground Injection Control:** No Off-Site Waste Receipt: No Universal Waste Indicator: No Universal Waste Destination Facility: No Federal Universal Waste: No Active Site State-Reg Handler: Hazardous Secondary Material Indicator: Ν

2018 GPRA Permit Baseline:

2018 GPRA Renewals Baseline:

Not on the Baseline
Not on the Baseline

202 GPRA Corrective Action Baseline:

No
Corrective Action Workload Universe:

No
Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed Universe:

No

Non-TSDFs Where RCRA CA has Been Imposed Universe:

TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:

TSDFs Only Subject to CA under Discretionary Auth Universe:

No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator:

Institutional Control Indicator:

No
Human Exposure Controls Indicator:

N/A
Groundwater Controls Indicator:

N/A
Significant Non-Complier Universe:

No
Unaddressed Significant Non-Complier Universe:

No

Commercial TSD Indicator:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SALLY BEAUTY SUPPLY #2565 (Continued)

1026727645

Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No Handler Date of Last Change: 20210202 Recognized Trader-Importer: No Recognized Trader-Exporter: No Importer of Spent Lead Acid Batteries: No Exporter of Spent Lead Acid Batteries: No Recycler Activity Without Storage: No Manifest Broker: No Sub-Part P Indicator: No

Hazardous Waste Summary:

Waste Code: D001

Waste Description: **IGNITABLE WASTE**

Waste Code: D002

Waste Description: **CORROSIVE WASTE**

D005 Waste Code: Waste Description: **BARIUM**

Waste Code: D007 Waste Description: **CHROMIUM**

Waste Code: D008 Waste Description: **LEAD**

Waste Code: D009 Waste Description: **MERCURY**

Waste Code: D011 Waste Description: **SILVER** Waste Code: D018 BENZENE Waste Description:

Waste Code: D035

Waste Description: METHYL ETHYL KETONE

Waste Code:

Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code:

Waste Description: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

Waste Code: U118

2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE Waste Description:

Waste Code:

Waste Description: FORMIC ACID (C,T)

Waste Code: U154

METHANOL (I) (OR) METHYL ALCOHOL (I) Waste Description:

Handler - Owner Operator:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SALLY BEAUTY SUPPLY #2565 (Continued)

1026727645

Owner/Operator Indicator: Owner

Owner/Operator Name: MAGNA KHOURY LLC

Legal Status: Private Date Became Current: 19981120

7455 S UNION PARK AVE STE A Owner/Operator Address:

MIDVALE, UT 84047 Owner/Operator City, State, Zip:

Owner/Operator Indicator: Operator

Owner/Operator Name: SALLY BEAUTY SUPPLY LLC

Legal Status: Private 19981120 Date Became Current:

Owner/Operator Address: 3001 COLORADO BLVD Owner/Operator City, State, Zip: DENTON, TX 76210

Historic Generators:

Receive Date: 20201205

SALLY BEAUTY SUPPLY #2565 Handler Name:

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator

Large Quantity Handler of Universal Waste: Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: Yes Non Storage Recycler Activity: No Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:

NAICS Code: 446120

NAICS Description: COSMETICS, BEAUTY SUPPLIES, AND PERFUME STORES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

10 MAGNA RESIDENTIAL MERCURY SPILL SEMS 1027177282 UTN000821141

North 3190 BREEZE DR. 1/4-1/2 **MAGNA, UT 84044**

0.439 mi. 2318 ft.

Relative: SEMS:

Lower Site ID: 0821141 EPA ID: UTN000821141 Actual:

Name: MAGNA RESIDENTIAL MERCURY SPILL 4346 ft.

Address: 3190 BREEZE DR. City,State,Zip: **MAGNA, UT 84044**

Cong District: 02 FIPS Code: 49035 Latitude: +40.702330 -112.089230 Longitude:

FF:

NPL: Not on the NPL

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MAGNA RESIDENTIAL MERCURY SPILL (Continued)

1027177282

Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Detail:

80 Region: Site ID: 0821141 UTN000821141 EPA ID:

MAGNA RESIDENTIAL MERCURY SPILL Site Name:

NPL: FF: Ν OU: 00 Action Code: RS

Action Name: **RV ASSESS**

SEQ:

Start Date: 2022-04-04 04:00:00 Finish Date: 2022-04-25 04:00:00

Current Action Lead: **EPA Perf**

Region: 80 Site ID: 0821141 EPA ID: UTN000821141

Site Name: MAGNA RESIDENTIAL MERCURY SPILL

NPL: FF: Ν OU: 00 Action Code: RVAction Name: RMVL SEQ:

Start Date: 2022-04-04 04:00:00 Finish Date: 2022-07-27 05:00:00

Qual:

Current Action Lead: **EPA Perf** Count: 1 records. ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|----------------|------------|---------------------|----------------------|-----|-------------|
| SALT LAKE CITY | S116556043 | REFINERY WASTE DUMP | 3201 NORTH 3250 WEST | | VCP |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|----|-----------------------|--|---|------------|------------|-------------|
| UT | AIRS | Division of Air Quality | Department of Environmental Quality | 07/25/2022 | 07/26/2022 | 10/12/2022 |
| UT | AST | Listing of Aboveground Storage Tanks | Department of Environmental Quality | 09/08/2022 | 09/09/2022 | 11/23/2022 |
| UT | BROWNFIELDS | Brownfields Assessment Sites | Department of Environmental Quality | 11/09/2021 | 11/11/2021 | 02/02/2022 |
| UT | CDL | Methamphetamine Contaminated Properties Listing | Salt Lake Valley Health Department | 08/29/2022 | 08/29/2022 | 11/17/2022 |
| UT | DRYCLEANERS | Registered Drycleaners | Department of Environmental Quality | 06/27/2022 | 07/13/2022 | 09/28/2022 |
| UT | EWA | Enforceable Written Assurances | Department of Environmental Quality | 06/13/2022 | 06/14/2022 | 09/02/2022 |
| UT | FUDS | Formerly Used Defense Sites | Utah AGRC | 05/22/2022 | 07/20/2022 | 10/04/2022 |
| UT | Financial Assurance 1 | Financial Assurance Information Listing | Department of Environmental Quality | 12/31/2021 | 07/13/2022 | 09/28/2022 |
| UT | Financial Assurance 2 | Financial Assurance Information Listing | Department of Environmental Quality | 09/08/2022 | 09/09/2022 | 11/23/2022 |
| ŪT | INST CONTROL | Sites with Institutional Controls | Department of Environmental Quality | 07/18/2022 | 07/18/2022 | 10/04/2022 |
| UT | LAST | Leaking Aboveground Storage Tank Sites | Department of Environmental Quality | 09/08/2022 | 09/09/2022 | 11/23/2022 |
| ŪT | LUST | Sites with Leaking Underground Storage Tanks | Department of Environmental Quality | 07/11/2022 | 07/12/2022 | 09/27/2022 |
| ŪT | MMRP | Military Munitions Response Program | Department of Environmental Quality | 06/13/2022 | 06/14/2022 | 09/02/2022 |
| UT | NPDES | Permitted Facilities Listing | Department of Environmental Quality | 09/06/2022 | 09/06/2022 | 11/23/2022 |
| UT | PFAS | PFAS Site Information Listing | Department of Environmental Quality | 07/11/2022 | 07/12/2022 | 09/27/2022 |
| UT | RGA LF | Recovered Government Archive Solid Waste Facilities List | Department of Environmental Quality | | 07/01/2013 | 01/16/2014 |
| ŪT | RGA LUST | Recovered Government Archive Leaking Underground Storage Tan | Department of Environmental Quality | | 07/01/2013 | 01/03/2014 |
| ŪT | | This state does not maintain a SHWS list. See the Federal CE | Department of Environmental Quality | | | |
| UT | SPILLS | Spills Data | Department of Environmental Quality | 01/10/2022 | 01/13/2022 | 04/05/2022 |
| ŪT | SPILLS 90 | SPILLS90 data from FirstSearch | FirstSearch | 07/31/2011 | 01/03/2013 | 02/11/2013 |
| ŪT | SWF/LF | List of Landfills | Department of Environmental Quality | 07/12/2022 | 07/13/2022 | 09/28/2022 |
| ŪT | TIER 2 | Tier 2 Facility Listing | Department of Environmental Quality | 12/31/2021 | 03/16/2022 | 06/13/2022 |
| UT | UIC | UIC Site Location Listing | Department of Natural Resources | 07/18/2022 | 07/18/2022 | 10/04/2022 |
| ŪT | UOPF | Used Oil Permitted Facilities | Department of Environmental Quality | 06/13/2022 | 06/13/2022 | 08/30/2022 |
| UT | UST | List of Sites with Underground Storage Tanks | Department of Environmental Quality | 07/11/2022 | 07/12/2022 | 09/27/2022 |
| UT | VCP | Voluntary Cleanup Sites List | Department of Environmental Quality | 08/05/2022 | 08/11/2022 | 11/01/2022 |
| US | 2020 COR ACTION | 2020 Corrective Action Program List | Environmental Protection Agency | 09/30/2017 | 05/08/2018 | 07/20/2018 |
| US | ABANDONED MINES | Abandoned Mines | Department of Interior | 06/14/2022 | 06/15/2022 | 08/22/2022 |
| US | AQUEOUS FOAM NRC | Aqueous Foam Related Incidents Listing | Environmental Protection Agency | 02/23/2022 | 03/31/2022 | 11/08/2022 |
| US | BRS | Biennial Reporting System | EPA/NTIS | 12/31/2019 | 03/02/2022 | 03/25/2022 |
| US | COAL ASH DOE | Steam-Electric Plant Operation Data | Department of Energy | 12/31/2020 | 11/30/2021 | 02/22/2022 |
| US | COAL ASH EPA | Coal Combustion Residues Surface Impoundments List | Environmental Protection Agency | 01/12/2017 | 03/05/2019 | 11/11/2019 |
| US | CONSENT | Superfund (CERCLA) Consent Decrees | Department of Justice, Consent Decree Library | 06/30/2022 | 07/21/2022 | 09/30/2022 |
| US | CORRACTS | Corrective Action Report | EPA | 06/20/2022 | 06/21/2022 | 06/28/2022 |
| US | DEBRIS REGION 9 | Torres Martinez Reservation Illegal Dump Site Locations | EPA, Region 9 | 01/12/2009 | 05/07/2009 | 09/21/2009 |
| US | DOCKET HWC | Hazardous Waste Compliance Docket Listing | Environmental Protection Agency | 05/06/2021 | 05/21/2021 | 08/11/2021 |
| US | DOD | Department of Defense Sites | USGS | 06/07/2021 | 07/13/2021 | 03/09/2022 |
| US | DOT OPS | Incident and Accident Data | Department of Transporation, Office of Pipeli | 01/02/2020 | 01/28/2020 | 04/17/2020 |
| US | Delisted NPL | National Priority List Deletions | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | ECHO | Enforcement & Compliance History Information | Environmental Protection Agency | 06/25/2022 | 07/01/2022 | 09/30/2022 |
| US | EDR Hist Auto | EDR Exclusive Historical Auto Stations | EDR, Inc. | | | |
| US | EDR Hist Cleaner | EDR Exclusive Historical Cleaners | EDR, Inc. | | | |
| US | EDR MGP | EDR Proprietary Manufactured Gas Plants | EDR, Inc. | | | |
| US | EPA WATCH LIST | EPA WATCH LIST | Environmental Protection Agency | 08/30/2013 | 03/21/2014 | 06/17/2014 |
| US | ERNS | Emergency Response Notification System | National Response Center, United States Coast | 06/14/2022 | 06/15/2022 | 06/21/2022 |
| US | FEDERAL FACILITY | Federal Facility Site Information listing | Environmental Protection Agency | 05/25/2021 | 06/24/2021 | 09/20/2021 |
| US | FEDLAND | Federal and Indian Lands | U.S. Geological Survey | 04/02/2018 | 04/11/2018 | 11/06/2019 |
| | | | , , , , , , , , , , , , , , , , , , , | | | |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| SFINAL ST | St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|--|----|------------------|--|---|------------|------------|-------------|
| STTS FIFRA/TSCA/ Tracking System - FIFRA/ Federal Insenticide, Fu | US | FEMA UST | Underground Storage Tank Listing | FEMA | 10/14/2021 | 11/05/2021 | 02/01/2022 |
| US FUTS INSP | US | FINDS | Facility Index System/Facility Registry System | EPA | 08/03/2022 | 08/25/2022 | 10/24/2022 |
| US FUTS INSP | US | FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu | EPA/Office of Prevention, Pesticides and Toxi | 04/09/2009 | 04/16/2009 | 05/11/2009 |
| US FUUS Formerly Used Delenies Sites U.S. Army Corps of Engineers 08/11/2022 08/11/2022 08/30/2022 US FUSRAP Formerly Ultized Sites Remedial Action Program Department of Energy 07/26/2021 07/27/2021 10/22/2021 US FUSRAP Formerly Ultized Sites Remedial Action Program Department of Energy 07/26/2021 07/27/2021 10/22/2021 US HIST FTTS INSP FIFRANTSCA Tracking System Administrative Case Listing Environmental Protection Agency 10/19/2006 03/01/2007 04/10/2007 US HIST FTTS INSP FIFRANTSCA Tracking System Inspection & Enforcement Case Listing Environmental Protection Agency 10/19/2006 03/01/2007 04/10/2007 | US | FTTS INSP | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu | EPA | 04/09/2009 | 04/16/2009 | 05/11/2009 |
| US FURSAP | US | FUDS | | U.S. Army Corps of Engineers | 08/11/2022 | 08/11/2022 | 09/30/2022 |
| US FUSRAP | US | FUELS PROGRAM | | EPA | 08/11/2022 | 08/11/2022 | 09/30/2022 |
| US HIST FTTS FIFRA/TSCA Tracking System Administrative Case Listing Environmental Protection Agency 1019/2006 03/01/2007 04/10/2007 US HIMRS Hazardous Materials Information Reporting System US. Department of Transportation 09/19/2022 <t< td=""><td>US</td><td></td><td></td><td>Department of Energy</td><td>07/26/2021</td><td>07/27/2021</td><td></td></t<> | US | | | Department of Energy | 07/26/2021 | 07/27/2021 | |
| US HIST FTTS INSP FIFRATSCA Tracking System Inspection & Enforcement Case Lis Environmental Protection Agency 10/19/2006 2001/2007 40/10/2007 US HAMIRS Hazardous Materials Information System Environmental Protection Agency 11/18/2016 11/18/2016 20/20/2017 <t< td=""><td>US</td><td>HIST FTTS</td><td></td><td></td><td>10/19/2006</td><td>03/01/2007</td><td></td></t<> | US | HIST FTTS | | | 10/19/2006 | 03/01/2007 | |
| US HMRS Hazardous Materials Information Reporting System U.S. Department of Transportation 09/19/2022 | US | HIST FTTS INSP | | | 10/19/2006 | 03/01/2007 | 04/10/2007 |
| US ICIS Integrated Compliance Information System Environmental Protection Agency 11/18/2016 12/20/2015 20/20/2015 <t< td=""><td>US</td><td>HMIRS</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td>09/19/2022</td><td></td></t<> | US | HMIRS | | · · · · · · · · · · · · · · · · · · · | | 09/19/2022 | |
| US INS OPEN DUMPS Open Dumps on Indian Land Department of Health & Human Serivces, Indian 04/01/2014 08/06/2014 01/20/2012 US NDIAN LUST R1 | US | ICIS | | · | | 11/23/2016 | |
| INDIAN LUST R1 | | | | | | | |
| INDIAN LUST R10 | US | | | · | | | |
| INDIAN LUST R4 Leaking Underground Storage Tanks on Indian Land EPA, Region 5 | US | INDIAN LUST R10 | | • | 04/20/2022 | 06/13/2022 | 08/16/2022 |
| INDIAN LUST RS | US | | | | | | 08/31/2022 |
| US INDIAN LUST R6 | | | | | | | |
| INDIAN LUST R7 | | | | | | | |
| INDIAN LUST R8 | | | | • | | | |
| INDIAN LUST R9 | | | | · · | | | |
| INDIAN ODI Report on the Status of Open Dumps on Indian Lands Environmental Protection Agency 12/31/1998 12/03/2007 01/12/2008 12/31/1904 07/14/2015 01/10/2022 01/31/2014 07/14/2015 01/10/2022 01/31/2014 07/14/2015 01/10/2022 01/31/2014 07/14/2015 01/10/2022 01/31/2014 07/14/2015 01/31/2022 01/31/2014 07/14/2015 01/31/2022 01/31/2014 07/14/2015 01/31/2022 01/31/2014 01/31/2022 01/31/2014 01/31/2022 01/31/2 | US | | | | | | |
| US INDIAN RESERV Indian Reservations USGS 12/31/2014 07/14/2015 01/10/2012 US INDIAN UST R1 Underground Storage Tanks on Indian Land EPA, Region 1 04/07/2022 06/13/2022 08/16/2022 US INDIAN UST R10 Underground Storage Tanks on Indian Land EPA Region 10 04/20/2022 06/13/2022 08/16/2022 US INDIAN UST R4 Underground Storage Tanks on Indian Land EPA Region 5 04/11/2022 06/13/2022 08/11/2022 US INDIAN UST R6 Underground Storage Tanks on Indian Land EPA Region 6 04/28/2022 06/13/2022 08/16/2022 US INDIAN UST R6 Underground Storage Tanks on Indian Land EPA Region 6 04/28/2022 06/13/2022 08/16/2022 US INDIAN UST R8 Underground Storage Tanks on Indian Land EPA Region 8 04/20/2022 06/13/2022 08/16/2022 US INDIAN UST R8 Underground Storage Tanks on Indian Land EPA Region 6 04/08/2022 06/13/2022 08/16/2022 US INDIAN UST R8 Underground Storage Tanks on Indian Land EPA | | | | | | | |
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| US INDIAN UST R4 | | | | | | | |
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| US ODI Open Dump Inventory Environmental Protection Agency 06/30/1985 08/09/2004 09/17/2004 US PADS PCB Activity Database System EPA 01/20/2022 01/20/2022 03/25/2022 US PCB TRANSFORMER PCB Transformer Registration Database Environmental Protection Agency 09/13/2019 11/06/2019 02/10/2020 US PCS Permit Compliance System EPA, Office of Water 07/14/2011 08/05/2011 09/29/2011 US PCS ENF Enforcement data EPA 12/31/2014 02/05/2015 03/06/2015 | US | NPL LIENS | | EPA | 10/15/1991 | 02/02/1994 | 03/30/1994 |
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| | | | · · · · · · · · · · · · · · · · · · · | • | | | |
| | US | PCS INACTIVE | Listing of Inactive PCS Permits | EPA | 11/05/2014 | | 05/06/2015 |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|----|-------------------------|--|---|------------|------------|-------------|
| US | PFAS ATSDR | PFAS Contamination Site Location Listing | Department of Health & Human Services | 06/24/2020 | 03/17/2021 | 11/08/2022 |
| US | PFAS ECHO | Facilities in Industries that May Be Handling PFAS Listing | Environmental Protection Agency | 01/03/2022 | 03/31/2022 | 11/08/2022 |
| US | PFAS ECHO FIRE TRAINING | Facilities in Industries that May Be Handling PFAS Listing | Environmental Protection Agency | 08/22/2018 | 03/31/2022 | 11/08/2022 |
| US | PFAS FEDERAL SITES | Federal Sites PFAS Information | Environmental Protection Agency | 02/23/2022 | 03/31/2022 | 11/08/2022 |
| US | PFAS NPDES | Clean Water Act Discharge Monitoring Information | Environmental Protection Agency | 01/03/2022 | 03/31/2022 | 11/08/2022 |
| US | PFAS NPL | Superfund Sites with PFAS Detections Information | Environmental Protection Agency | 02/23/2022 | 07/08/2022 | 11/08/2022 |
| US | PFAS PART 139 AIRPORT | All Certified Part 139 Airports PFAS Information Listing | Environmental Protection Agency | 08/22/2018 | 10/26/2022 | 11/08/2022 |
| US | PFAS RCRA MANIFEST | PFAS Transfers Identified In the RCRA Database Listing | Environmental Protection Agency | 01/03/2022 | 03/31/2022 | 11/08/2022 |
| US | PFAS TSCA | PFAS Manufacture and Imports Information | Environmental Protection Agency | 01/03/2022 | 03/31/2022 | 11/08/2022 |
| US | PFAS WQP | Ambient Environmental Sampling for PFAS | Environmental Protection Agency | 01/03/2022 | 03/31/2022 | 11/08/2022 |
| US | PRP | Potentially Responsible Parties | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | Proposed NPL | Proposed National Priority List Sites | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | RAATS | RCRA Administrative Action Tracking System | EPA | 04/17/1995 | 07/03/1995 | 08/07/1995 |
| US | RADINFO | Radiation Information Database | Environmental Protection Agency | 07/01/2019 | 07/01/2019 | 09/23/2019 |
| US | RCRA NonGen / NLR | RCRA - Non Generators / No Longer Regulated | Environmental Protection Agency | 06/20/2022 | 06/21/2022 | 06/28/2022 |
| US | RCRA-LQG | RCRA - Large Quantity Generators | Environmental Protection Agency | 06/20/2022 | 06/21/2022 | 06/28/2022 |
| US | RCRA-SQG | RCRA - Small Quantity Generators | Environmental Protection Agency | 06/20/2022 | 06/21/2022 | 06/28/2022 |
| US | RCRA-TSDF | RCRA - Treatment, Storage and Disposal | Environmental Protection Agency | 06/20/2022 | 06/21/2022 | 06/28/2022 |
| US | RCRA-VSQG | RCRA - Very Small Quantity Generators (Formerly Conditionall | Environmental Protection Agency | 06/20/2022 | 06/21/2022 | 06/28/2022 |
| US | RMP | Risk Management Plans | Environmental Protection Agency | 04/27/2022 | 05/04/2022 | 05/10/2022 |
| US | ROD | Records Of Decision | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing | Environmental Protection Agency | 01/01/2017 | 02/03/2017 | 04/07/2017 |
| US | SEMS | Superfund Enterprise Management System | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | SEMS-ARCHIVE | Superfund Enterprise Management System Archive | EPA | 10/27/2022 | 11/01/2022 | 11/15/2022 |
| US | SSTS | Section 7 Tracking Systems | EPA | 07/18/2022 | 07/18/2022 | 07/29/2022 |
| US | TRIS | Toxic Chemical Release Inventory System | EPA | 12/31/2018 | 08/14/2020 | 11/04/2020 |
| US | TSCA | Toxic Substances Control Act | EPA | 12/31/2016 | 06/17/2020 | 09/10/2020 |
| US | UMTRA | Uranium Mill Tailings Sites | Department of Energy | 08/30/2019 | 11/15/2019 | 01/28/2020 |
| US | US AIRS (AFS) | Aerometric Information Retrieval System Facility Subsystem (| EPA | 10/12/2016 | 10/26/2016 | 02/03/2017 |
| US | US AIRS MINOR | Air Facility System Data | EPA | 10/12/2016 | 10/26/2016 | 02/03/2017 |
| US | US BROWNFIELDS | A Listing of Brownfields Sites | Environmental Protection Agency | 02/23/2022 | 03/10/2022 | 03/10/2022 |
| US | US CDL | Clandestine Drug Labs | Drug Enforcement Administration | 07/29/2022 | 08/18/2022 | 10/24/2022 |
| US | US ENG CONTROLS | Engineering Controls Sites List | Environmental Protection Agency | 08/15/2022 | 08/17/2022 | 10/24/2022 |
| US | US FIN ASSUR | Financial Assurance Information | Environmental Protection Agency | 06/20/2022 | 06/21/2022 | 08/31/2022 |
| US | US HIST CDL | National Clandestine Laboratory Register | Drug Enforcement Administration | 07/29/2022 | 08/18/2022 | 10/24/2022 |
| US | US INST CONTROLS | Institutional Controls Sites List | Environmental Protection Agency | 08/15/2022 | 08/17/2022 | 10/24/2022 |
| US | US MINES | Mines Master Index File | Department of Labor, Mine Safety and Health A | 08/03/2022 | 08/17/2022 | 08/31/2022 |
| US | US MINES 2 | Ferrous and Nonferrous Metal Mines Database Listing | USGS | 05/06/2020 | 05/27/2020 | 08/13/2020 |
| US | US MINES 3 | Active Mines & Mineral Plants Database Listing | USGS | 04/14/2011 | 06/08/2011 | 09/13/2011 |
| US | UXO | Unexploded Ordnance Sites | Department of Defense | 12/31/2020 | 01/11/2022 | 02/14/2022 |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

| St | Acronym | Full Name | Government Agency | Gov Date | Arvl. Date | Active Date |
|--|-------------------|--|--|------------|------------|-------------|
| NY | NY MANIFEST | Facility and Manifest Data | Department of Environmental Conservation | 01/01/2019 | 10/29/2021 | 01/19/2022 |
| PA | PA MANIFEST | Manifest Information | Department of Environmental Protection | 06/30/2018 | 07/19/2019 | 09/10/2019 |
| WI | WI MANIFEST | Manifest Information | Department of Natural Resources | 05/31/2018 | 06/19/2019 | 09/03/2019 |
| US | AHA Hospitals | Sensitive Receptor: AHA Hospitals | American Hospital Association, Inc. | | | |
| US | Medical Centers | Sensitive Receptor: Medical Centers | Centers for Medicare & Medicaid Services | | | |
| US | Nursing Homes | Sensitive Receptor: Nursing Homes | National Institutes of Health | | | |
| US | Public Schools | Sensitive Receptor: Public Schools | National Center for Education Statistics | | | |
| US | Private Schools | Sensitive Receptor: Private Schools | National Center for Education Statistics | | | |
| UT | Daycare Centers | Sensitive Receptor: Child Care Provider List | Department of Health | | | |
| | | | | | | |
| US | Flood Zones | 100-year and 500-year flood zones | Emergency Management Agency (FEMA) | | | |
| US | NWI | National Wetlands Inventory | U.S. Fish and Wildlife Service | | | |
| UT | State Wetlands | Wetland Inventory | Utah Geological Survey | | | |
| US | Topographic Map | Current USGS 7.5 Minute Topographic Map | U.S. Geological Survey | | | |
| US | Oil/Gas Pipelines | | Endeavor Business Media | | | |
| US Electric Power Transmission Line Data | | Pata | Endeavor Business Media | | | |

STREET AND ADDRESS INFORMATION

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APPENDIX E CREDENTIALS

Kelly Shaw, GIT

Geologist

PROFESSIONAL EXPERIENCE

Kelly Shaw joined Terracon Consultants, Inc. in March 2021. Working under the guidance of Terracon's environmental staff, which includes geotechnical engineers, geologists, geoscientists, and environmental scientists, she has experience in environmental site assessments, soil, and groundwater sampling.

Her specific background includes geotechnical fieldwork and reporting, construction observation, environmental fieldwork, and reporting. She has worked on over 100 Phase I Environmental Site Assessments (ESAs), including residential properties, restaurants, agricultural properties, retail and industrial properties, railroad right-of-ways, and gas stations and auto shops in California, Utah, Idaho, and Wyoming.

PROJECT EXPERIENCE

Large, Confidential International Corporation – Utah and IdahoKelly served as Project Manager on several Phase I ESAs throughout Utah for this large, confidential international corporation. She reviewed historical and county records, federal, state, and local agency databases, conducted site investigations and interviews, and authored the reports.

Parc View Apartments - West Jordan, Utah

Kelly served as Project Manager on this Phase I ESA in West Jordan. She reviewed historical and county records, federal, state, and local agency databases, conducted the site investigation and interviews, and co-authored the report.

Large, Confidential International Nonprofit Corporation – Throughout the United States

Ms. Shaw served as Project Manager on several Phase I ESAs in Utah and Idaho for this large, confidential, nonprofit international corporation. She reviewed historical and county records, federal, state, and local agency databases, conducted site investigations and interviews, and authored the reports.

Dewar Plaza - Rock Springs, Wyoming

Kelly served as Project Manager on Phase I ESA in Rock City. She reviewed historical and county records, federal, state, and local agency databases, conducted the site investigation and interviews, and co-authored the report.

University of Utah - Several locations in Utah

Kelly served as Assistant Project Manager and Project Manager for several Phase I ESAs for the University of Utah. She reviewed historical and county records, federal, state, and local agency databases, conducted site investigations and interviews, and authored the reports.

Providence Hall - Herriman, Utah





EDUCATION

B.S., Geology, California State University - Fullerton, 2015

REGISTRATIONS/ CERTIFICATIONS

OSHA 40-hour HAZWOPER

Utah Groundwater and Soil Sampling

Utah Asbestos Certification #ASB-7607

Salt Lake County Pre-Demolition Building Inspector Utah PBI 172

Kelly Shaw, GIT (continued)

Kelly assisted on two Phase I ESAs for Providence Hall. She reviewed historical and county records, federal, state, and local agency databases, conducted site investigations, and authored the reports.

CalTrans - Various locations in Southern California

Kelly reviewed historical and county records, federal, state, and local agency databases, conducted site investigations, performed subsurface investigations, and assisted in report preparation.

Los Angeles World Airports (LAWA), LAX - Los Angeles, California

Kelly worked on several projects at LAX proper and several properties held by LAWA. She reviewed historical and county records, federal, state, and local agency databases, conducted site inspections, performed subsurface investigations and construction observations, and assisted in report preparation.

Los Angeles County Metro and Orange County Metro – Various locations throughout Los Angeles and Orange Counties

Kelly worked on several Los Angeles and Orange Counties for Metro projects. She reviewed historical and county records, federal, state, and local agency databases, conducted site inspections, performed subsurface investigations, and assisted in report preparation.



Christina (Tina) Cheney

ESA Group Manager

PROFESSIONAL EXPERIENCE

Christina (Tina) joined Neil O. Anderson and Associates, a Terracon Company, in 2004. In 2014 she began working for Terracon's Salt Lake City office. Working under the guidance of Terracon's professional engineering staff, which includes geotechnical engineers, geologists, and geoscientists, she quickly gained extensive experience in environmental site investigations and remediations.

Her specific expertise includes environmental site assessments; surface and groundwater contamination assessments, prevention, monitoring, and control; risk assessments and risk reduction recommendations; and other areas of expertise relating to hazardous substances and/or hazardous waste management.

Tina has 17 years of experience performing Phase I Environmental Site Assessments (ESAs). She has conducted over 1,000 studies, including auto shops/gasoline stations, residential properties, dairies, restaurants, industrial properties, medical facilities, retail properties, and agricultural properties. These studies have been conducted in Utah, Idaho, Wyoming, Nevada, Washington, California, Colorado, New Mexico, Kansas, Indiana, and Florida and have followed ASTM Standard E1527-13 and EPA's All Appropriate Inquiry Standard. Phase I ESA report completion is often needed to complete the sale of commercial property. For fewer suspect properties, she has performed and managed the Transaction Screen Process, ASTM Standard E1528-14, and Regulatory Database Reviews, understanding the limits of those studies' recommendations were sometimes needed to transition to a Phase I ESA when Potential Environmental Conditions should be more thoroughly researched, evaluated and discussed.

PROJECT EXPERIENCE

Salt Lake City Corporation - Salt Lake City, Utah

Tina has managed Phase I ESAs for Salt Lake City Corporation since her time in Salt Lake City. She has served as a Project Manager on the project and as Group Manager. She reviewed historical and county records from federal, state, and local agency databases, conducted interviews, conducted site inspections, and authored reports.

Salt Lake County - Salt Lake City, Utah

Tina has managed Phase I ESAs for Salt Lake County, including Brownfield Projects. She has served as a Project Manager and Group Manager on these projects. She reviewed historical and county records from federal, state, and local agency databases, conducted interviews, conducted site inspections, identified recognized environmental conditions, and authored reports.



EDUCATION

Bachelor of Science, Brigham Young University, Recreation Management & Leisure Services, 2002

Associate of Science, Ricks College, Electronics Engineering Technology, 1999

Associates of Science, Ricks College, Computer Systems Technology, 1999

REGISTRATIONS/ CERTIFICATIONS

Former Registered Environmental Assessor #30103 (2008-2012)

AHERA: Building Inspector



Large, Confidential International Nonprofit Corporation - Throughout the United States

Tina has managed Phase I ESAs in Utah, Idaho, Wyoming, Florida, and Indiana for this large, confidential nonprofit international corporation. She reviewed historical and county records from federal, state, and local agency databases, conducted site inspections and authored the reports.

Confidential - National (2019)

Tina managed a multi-site portfolio project for a local law firm with sites in thirteen states. The project started with Phase I ESAs, and follow-up Phase II sampling for soil vapor, asbestos, and mold sampling.

University of Utah - Several locations in Utah

Tina served as Project Manager and Group Manager for several Phase I ESAs for the University of Utah. She has reviewed historical and county records from federal, state, and local agency databases, conducted interviews and co-authored the reports.

Murray City RDA - Murray, Utah

Tina served as Project Manager and Group Manager for several Phase I ESAs for the City of Murray. She has reviewed historical and county records from federal, state, and local agency databases, conducted interviews and authored the reports.

Windermere Real Estate - Several locations in Utah

Tina served as Project Manager and Group Manager for several Phase I ESAs for Windermere Real Estate. Recognized environmental conditions were identified at some of these locations, and a Phase II ESA was recommended. She has reviewed historical and county records from federal, state, and local agency databases, conducted interviews and co-authored the reports.

Wadsworth Development Group - Several locations in Utah

Tina served as Project Manager and Group Manager for several Phase I ESAs for Wadsworth Development Group. She has reviewed historical and county records from federal, state, and local agency databases, conducted interviews and authored the reports.

Sears Phase I ESAs - California, and Utah

Reviewed historical and county records, federal, state, and local agency databases, conducted interviews and co-authored the reports. Recognized environmental conditions were identified and, a Phase II ESA was recommended on several sites. Tina served as Project Manager for several concurrent Phase I ESAs for several Sears' stores in California and Utah.

Ensign Group, Senior Care Facilities - Various Locations in Utah

Tina served as Project Manager for several concurrent Phase I ESAs for senior-care facilities in Utah. She reviewed historical and county records from federal, state, and local agency databases, conducted interviews and authored the reports.

Confidential Project - Downtown Salt Lake City, Utah

Tina served as Project Manager for this project. She reviewed historical and county records from federal, state, and local agency databases, conducted interviews and authored the report. She identified a former gas station at the site. Recognized environmental conditions were identified, and a Phase II ESA was recommended.



Christina (Tina) Cheney (continued)

Parkway Commons - Murray, Utah

Tina served as Project Manager for the Phase I ESAs and limited sampling. Sampling included radon, lead in water, and asbestos. She reviewed historical and county records from federal, state, and local agency databases, conducted interviews and authored the report.

Wells Fargo Bank - Various Locations in Utah

Tina served as Project Manager for several Phase I ESAs throughout Utah for Wells Fargo Bank. She reviewed historical and county records and federal, state, and local agency databases, conducted interviews, and authored the reports. Visual and limited sampling for asbestos was included in some of the reports.

Cobalt Phase I ESAs - Salt Lake City, Utah

Reviewed historical and county records from federal, state, and local agency databases, conducted interviews, and co-authored the report. Recognized environmental conditions were identified, and, a Phase II ESA was recommended on several sites. Tina served as an assistant for several concurrent Phase I ESAs for several industrial properties in the Salt Lake Valley.

Madera High School - Madera, California

Provided environmental assessment for the construction of a new high school in Madera. Neil O. Anderson & Associates acted as the premier agent in performing the Initial Study, Preliminary Environmental Assessment (PEA) Removal Action (RA) Reports for the site. Tina reviewed the Initial Study and worked with the Project Manager on the write-up of the PEA Workplan, PEA, RA Workplan, and RA report.

Chinchiolo Stemilt Groundwater Monitoring - Stockton, California

Tina served as a staff scientist on this project, which involved quarterly and annual monitoring of the Central Valley Regional Water Quality Control Board. Responsibilities included creating groundwater contour maps from groundwater data collected from on-site monitoring wells, calculating the flow direction and hydraulic gradient of groundwater at the subject property, analyzing and interpreting analytical data, and compiling the quarterly and annual reports.



APPENDIX F DESCRIPTION OF TERMS AND ACRONYMS

| Term/Acronym | Description |
|--------------|--|
| | Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). |
| ACM | Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. |
| | Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply. |
| AHERA | Asbestos Hazard Emergency Response Act |
| AST | Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location. |
| BGS | Below Ground Surface |
| Brownfields | State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments. |
| BTEX | Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release. |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs. |
| CERCLIS | Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103. |
| CESQG | Conditionally Exempt Small Quantity Generators |
| CFR | Code of Federal Regulations |

| Term/Acronym | Description |
|------------------------|---|
| CREC | Controlled Recognized Environmental Condition is defined in ASTM E1527-21 as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report." |
| DOT | U.S. Department of Transportation |
| EPA | U.S. Environmental Protection Agency |
| ERNS | Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative datasharing effort between EPA, DOT, and the National Response Center. |
| ESA | Environmental Site Assessment |
| FRP | Fiberglass Reinforced Plastic |
| Hazardous Substance | As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). |
| Hazardous Waste | This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed." |
| HREC | Historical Recognized Environmental Condition is defined in ASTM E1527-21 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition." |

| contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. ILP Innocent Landowner/Operator Program LQG Large Quantity Generators LUST Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term. MCL Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contaminant on that determines whether a supplier can deliver water from a specific source without treatment. MSDS Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Commination Standard. NESHAP National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants. NFRAP Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report. NOV Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified. NPDES National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water. Phyl. is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program. OCHA Occupational Safety and Health Administration or Occupational Safety and Health Act Presumed Abestos-Containing Material. A material that is suspected of containing o | Term/Acronym | Description | |
|--|--------------|---|--|
| LUST Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term. MCL Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment. MSDS Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard. NESHAP National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants. NFRAP Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report. NOV Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified. NPDES National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water. NPL The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program. OSHA Occupational Safety and Health Administration or Occupational Safety and Health Act PROM Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos. Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transfo | IC/EC | restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or | |
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| indicating a violation of applicable rule or regulations has been identified. NPDES National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water. The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program. OCCUpational Safety and Health Administration or Occupational Safety and Health Act PACM Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos. Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today. PCI/L picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials. PLM Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | NFRAP | Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report. | |
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| Under the Superfund Program. OSHA Occupational Safety and Health Administration or Occupational Safety and Health Act PACM Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos. Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today. PCI/L Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | NPDES | National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water. | |
| Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos. Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today. pCi/L picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials. PLM Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | NPL | The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions | |
| PACM analyzed to confirm the presence or absence of asbestos. Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today. PCi/L picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials. PLM Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | OSHA | · · · · · · · · · · · · · · · · · · · | |
| PCB solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today. pCi/L picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials. PLM Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | PACM | Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been | |
| pCi/L picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials. PLM Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | PCB | stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, | |
| PLM Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | pCi/L | | |
| | | Polarized Light Microscopy (see ACM section of the report, if included in the scope of services) | |
| | PST | | |

| Term/Acronym | Description |
|--------------------------------|--|
| Radon | A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l. |
| RCRA | Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal ('cradle to grave"). 42 U.S.C. 6901 et seq. |
| RCRA Generators | The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste. |
| RCRA CORRACTS/TS Ds | The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility. |
| RCRA Non- CORRACTS/TS Ds | The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required. |
| RCRA Violators List | RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance. |
| RCRIS | Resource Conservation and Recovery Information System, as defined in the Records Review section of this report. |
| REC | Recognized Environmental Conditions are defined by ASTM E1527-21 as: 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition. |
| SCL | State "CERCLIS" List (see SPL /State Priority List, below). |
| SPCC | Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements. |
| SPL | State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List. |
| SQG | Small Quantity Generator |
| SWF/LF | State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner. |
| TPH | Total Petroleum Hydrocarbons |

| Term/Acronym | Description |
|--------------|--|
| TRI | Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act. |
| TSCA | Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq. |
| USACE | United States Army Corps of Engineers |
| USC | United States Code |
| USGS | United States Geological Survey |
| USNRCS | United States Department of Agriculture-Natural Resource Conservation Service |
| | Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping |
| UST | connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or |
| | more beneath the surface of the ground (i.e., buried). |
| VCP | State and/or Tribal facilities included as Voluntary Cleanup Program sites. |
| VOC | Volatile Organic Compound |
| | Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. |
| Wetlands | The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U.S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination. |